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THE
ROLLAMO



Published Annually by the Students

—of—

The School of Mines and Metallurgy

of the

University of Missouri

To

DR. AUSTIN LEE McRAE

This Book is Affectionately Dedicated





DOCTOR AUSTIN LEE McRAE

Professor of Physics

...CALENDAR...

1907.

June 8, Saturday, 10 a. m.	Annual Commencement.
May 31 to June 6, inclusive	Final Examinations.
September 14 and 16, Saturday and Monday	Entrance Examinations.
September 17, Tuesday	First Term Begins.
November 28, Thursday	Thanksgiving Holiday.
December 20, Friday 12 m	Christmas Recess Begins.

1908.

January 2, Thursday	Second Term Begins.
February 22, Saturday	Holiday.
March 16, Monday	Third Term Begins.
May 29 to June 4, inclusive	Final Examinations.
June 10, Wednesday	Annual Commencement.

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Dr. J. C. Parish	Vandalia, Mo.
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Walter Williams	Columbia, Mo.
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J. V. C. Karnes	Kansas City, Mo.
Dr. S. L. Baysinger	Rolla, Mo.

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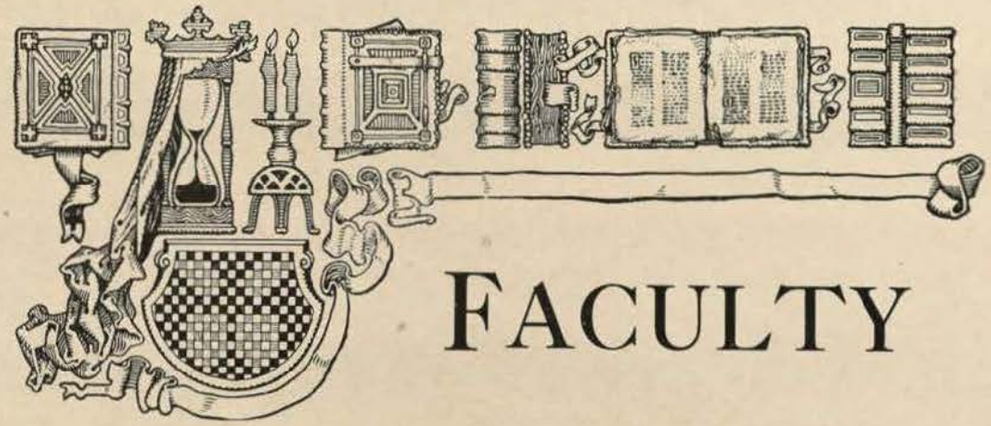
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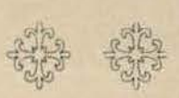


DR. A. ROSS HILL,

President of the University.

LEWIS EMANUEL YOUNG, B. S., E. M.

Director of the School of Mines and Metallurgy. B. S. Pennsylvania State College, 1900; E. M. Iowa State College, 1904; Assistant Engineer Pittsburg Coal Co., 1900; Instructor in Mining, Iowa State College, 1900-1901; Assistant Geologist, Iowa Geological Survey, 1901; Mining Engineer with Champion Copper Co., 1902; Assistant Professor of Mining, Colorado School of Mines, 1904-1907; Consulting Mining Engineer, Denver; Director of Missouri School of Mines and Metallurgy, University of Missouri, 1907.





LEWIS EMANUEL YOUNG, E. M.

Director of the School



George Reginald Dean, C. E.

Professor of Mathematics.

B. S. 1890, C. E. 1891, School of Mines.



Victor Hugo Gottschalk, M. S.

Professor of Chemistry.

B. S. 1898, M. S. 1900, School of Mines.



Elmo Golightly Harris, C. E.

Professor of Civil Engineering.

C. E. 1882, University of Virginia.



Durward Copeland, S. B.

Professor of Metallurgy

S. B. 1903, Massachusetts Institute of Technology

Harold Bartlett Litchman, S. B.

Professor of Mining and Ore Dressing

S. B. 1903, Massachusetts Institute of Technology

Leon Stacy Griswold, A. B.

Assistant Professor of Geology and Mineralogy

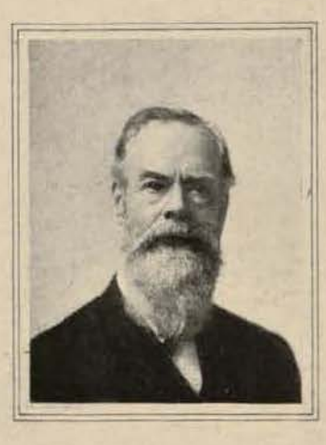
A. B. 1889, Harvard



Joseph Henry Bowen,
Assistant Professor of Shop-work and Drawing.
Graduate Miller School, Va.

Leon Ellis Garrett, B. S.
Assistant Professor of Mathematics.
B. S. 1901, School of Mines.

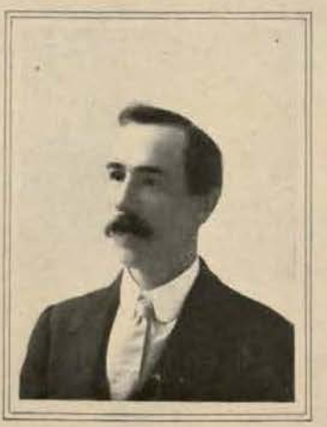
Robert Clair Thompson, M. S.
Assistant Professor of Chemistry.
B. S. 1900, Westminster College, Pa.
M. S. 1904, School of Mines.



Paul Julius Wilkins, B. S.
Instructor in Modern Languages.
B. S. 1869, Michigan A. & M. College.



John Bennett Scott, B. S.
Instructor in English and Secretary.
B. S. 1907, School of Mines



Theodore H. Trams, B. S.
Instructor in Civil Engineering:
B. S. 1907, University of Illinois.



Edward Staples Smith, M. E.

Instructor in Shop-work and Drawing.

M. E. 1904, Brown University.



Andrew Jackson Seltzer, B. S.

Instructor in Chemistry.

B. S. 1907, Missouri School of Mines.

George Watson Corey, E. M.

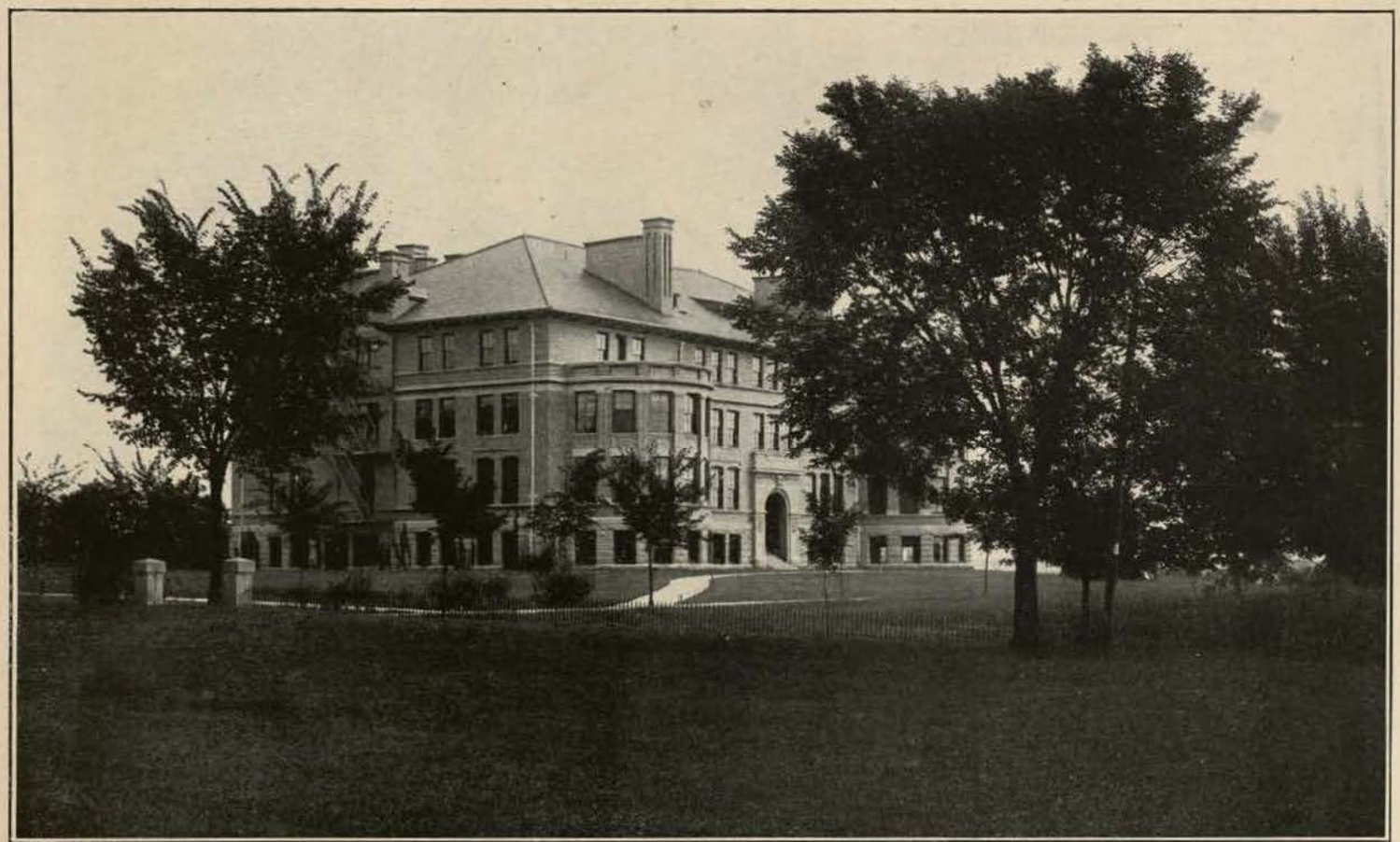
Instructor in Mineralogy.

E. M. 1906, Michigan College of Mines.



Jessica Heller

Librarian

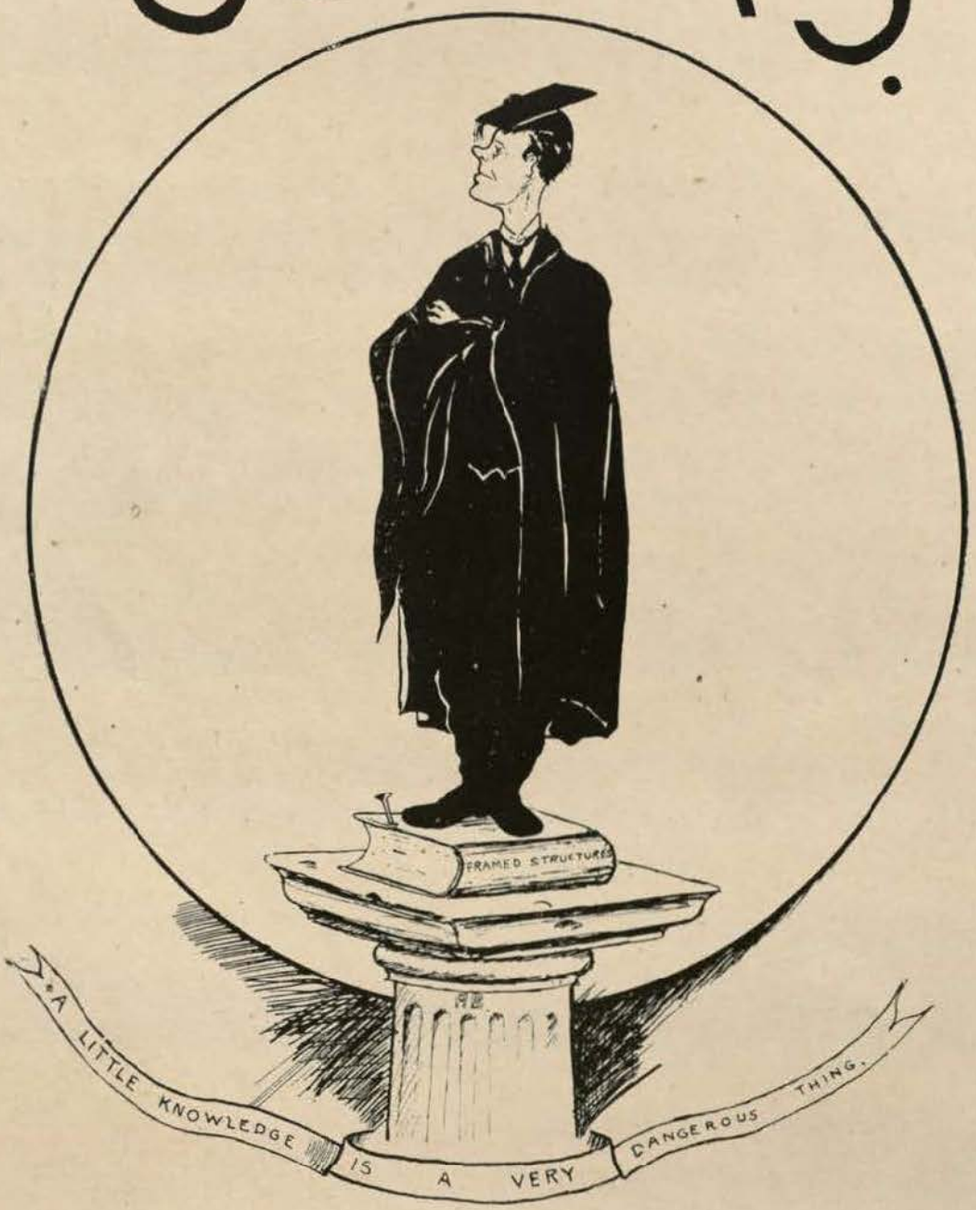


NORWOOD HALL



VIEW ON CAMPUS

SENIORS.


FRAMED STRUCTURES
A LITTLE KNOWLEDGE IS A VERY DANGEROUS THING.

THE SENIOR CLASS

Wouldst Thou Have Fame?

—Morals of Abou Ben Adhem

The class of '08 lays claim to being the best bunch of fellows that ever congregated at M. S. M. We do not know how it came to pass that so many good fellows came together at one time, but we do know that no one will ever be able to refute the above statement. If any one of the lower classmen should take exception to what we deem a modest assertion, we take the liberty of referring them to our smallest and best natured member, "Red" Barrett, class president and "bruiser," who will continue to meet all comers.

Then there is that good fellow and born "masher," John Hyer Bowles, who successfully handled the biggest society event ever "pulled off" by any class—the banquet given by the class four years ago at their club rooms. John made a hit that evening by dispensing with the formal "At Home" card and summoning the guests to the feast, or fray, by simply protruding his head from the window and yelling at the top of his voice. John is really a character hereabouts, and is what we call original.

Then there is "Gloomy Gus" Baker. Did you ever hear of him? Well, he is a star. He plays the piano beautifully and sings divinely. Gloomy is wonderfully attached to Kinney's white bull dog, and spends all his spare time making eyes at the canine.

Talk about your fast young men! There is George Boyer, whose middle initial is H. He ran a mile at Joplin last year in the mud in one minute and forty-one seconds. Mr. Boyer is somewhat bashful in society, but as soon as he has completed the correspondence course in "Parlor Manners" he will make his formal debut. Watch the bill-boards.

Roscoe Conkling Ham, of illustrious name and noble ancestry. He never did any one any harm and is not naughty.

"Count" Van Buren Hinsch was born in Dublin, Germany, and being compelled from early childhood to shift for himself, walked by rail to Bologna, where he hired out to a famous geologist who ran a sausage foundry at the village cross-roads. Finding himself alone one day he exclaimed, "The single life is not worth living for a sausage grinder." Mr. Hinsch is now one of our married men's quartette.

"Windy" Holm, known the world over, has his name on every railroad water tank in the country, and is on speaking terms with every lady who answers calls at the back door. Otherwise he has no bad habits. Is dark complexioned and in all respects a polished gentleman.

Dibrell Pryor Hynes, who played half-back on the M. S. M. team, is the pride of the "Fifty-seven varieties." Pickled and bottled.

Mr. Horace Isabell Johnson of Old Mexico, lover of chili, mescal and Russian maidens. Mr. Johnson has high aspirations and retires early.

Mr. George Frederick Kellogg of Skidmore, Mo. Mr. Kellogg has money to lend, uses Puzzloni's Face Cream and two hand mirrors as he anticipates a visit from his mother.

Mr. Horace Tharp Mann helped build the Rocky Mountains and thaw out the Mastodon of Siberia.

Ward Barr Mix is also a member of our married men's quartette and is a man of much sense.

Mr. Robert Lee Mook says he can remember when there wasn't any school here, and wishes there wasn't any here now, as the school bell interferes with his slumbers. He is as good a student as he used to be and has never gotten out of his working clothes.

Edwin Phelps Murray pines for the management of an ice cream stand.

Mr. Don M. Neer of Winfield, Kas., is a last year's acquisition and claims that they still eat potato tops and all out there.

Mr. Alfred Leo Nye of Nebraska. We measured his memory with a 100-foot tape and found he didn't have any.

John Christopher Columbus Mahommet Radovich, of Socialistic fame. (Church Socialistic.) He will share his money with the Student Body on April 36th, 1908. Remember the date.

John Joseph Sandford, of Dansville, N. Y., is heavy with the ladies and desires "affinities." Apply at once.

Miles Sedivy. Of local fame as "De King of de Bohunks," only don't call it to his face, he is handy "wit his mitts."

Francis James Simington—departed. Simmy was the toughest young man we ever saw. Also a member of the married men's quartette.

Howard Nelson Spofford, of "deah old Boston." Spoffy knows why all the streets in Boston are crooked and in fact he can talk intelligently (?) on any subject. He is also on the "affinity market."

Edwin Bryant Thornhill, who is an excellent hat trimmer. Did you ever hear him laugh? Laugh for the ladies, Tubby.

A. Emory Wishon, of California. The most versatile man in the class. He can promote anything from a chicken house to a gold mine. His enthusiasm is at once a joy and a sorrow. He is happily married.

These are merely a few of our popular ones and are nothing to the rest, of whom modesty forbids us to speak.



Charles Armstrong Baker,

Fort Madison, Iowa.

R-Way Club. "Gloomy Gus" has the "divine touch" on the piano and a perpetual smile. Never caught eavesdropping.

Edward Phillip Barrett,

Hastings, Nebraska.

Track Captain, 1906-1908.
Steward Grubstakers 1907-1908.
Varsity Foot-ball 1906-1907-1908.
Assistant in Chemistry.
Class President 1907-1908.
"The big husky guy that EATS 'EM ALIVE." Believes he can bowl 310 if the pins were set right.
Fluent use of elegant language.

John Hyer Bowles,

Lake Springs, Missouri.

Tau Beta Pi.
Class Treasurer 1905.
Treasurer Athletic Association 1908.
"Native Son."
Agitator and consumer of homespun.
Dotes on framed structures.



George Hewitt Boyer,

St. Louis, Missouri.

Track Team 1906-1907.
Assistant Manager Track Team 1906.
Captain Track Team 1907.
Rollamo Board 1907.
"Step and a half."
Got lean dodging marriageable daughters.
Believes overfeeding prevents baldness.
Noted for his convictions.

Boyd Dudley, Jr.

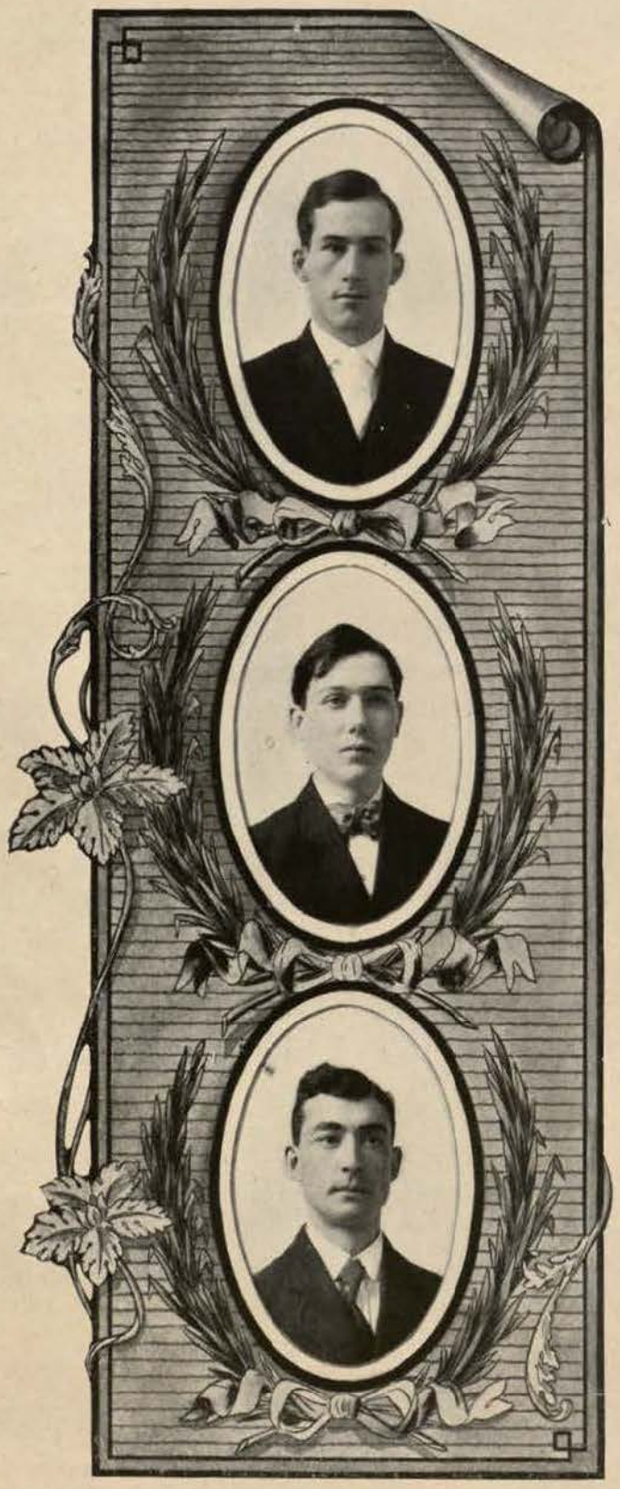
Gallatin, Missouri.

Assistant in Metallurgy.
"De Wise Guy."
The Pride of Gallatin.
Perseveres in attention—to himself.
Asks fool questions.

Frank LeRoy Flynt,

St. Louis, Missouri.

"Papa" M. S. M. Orchestra
Cultivates a resemblance to Prof. Harris, ably assisted by Nature.



James Duncan Fowler,

Hughesville, Missouri.

Member Senior Basket-ball Team.
Class Foot-ball.
Made good in practice.

Charles Lewis French,

St. Louis, Missouri.

Grubstaker.
Senior Basket-ball.
Iberia Foot-ball star.
Goes to chapel and applauds prayers.

Roscoe Conkling Ham,

Kansas City, Missouri.

Grubstaker.
"De Villain."
Inventor of the "Ham" system of crushing with rolls,—both rolls taking in the same direction.



Frank William Harper,

Dallas, Texas.

Assistant in Chemistry.
Grubstaker.
Matrimonially inclined.
Imagines he has epicurean tastes. Uses his chemical knowledge to this end. Is a living representation of the atom.

Herman Carl Hase,

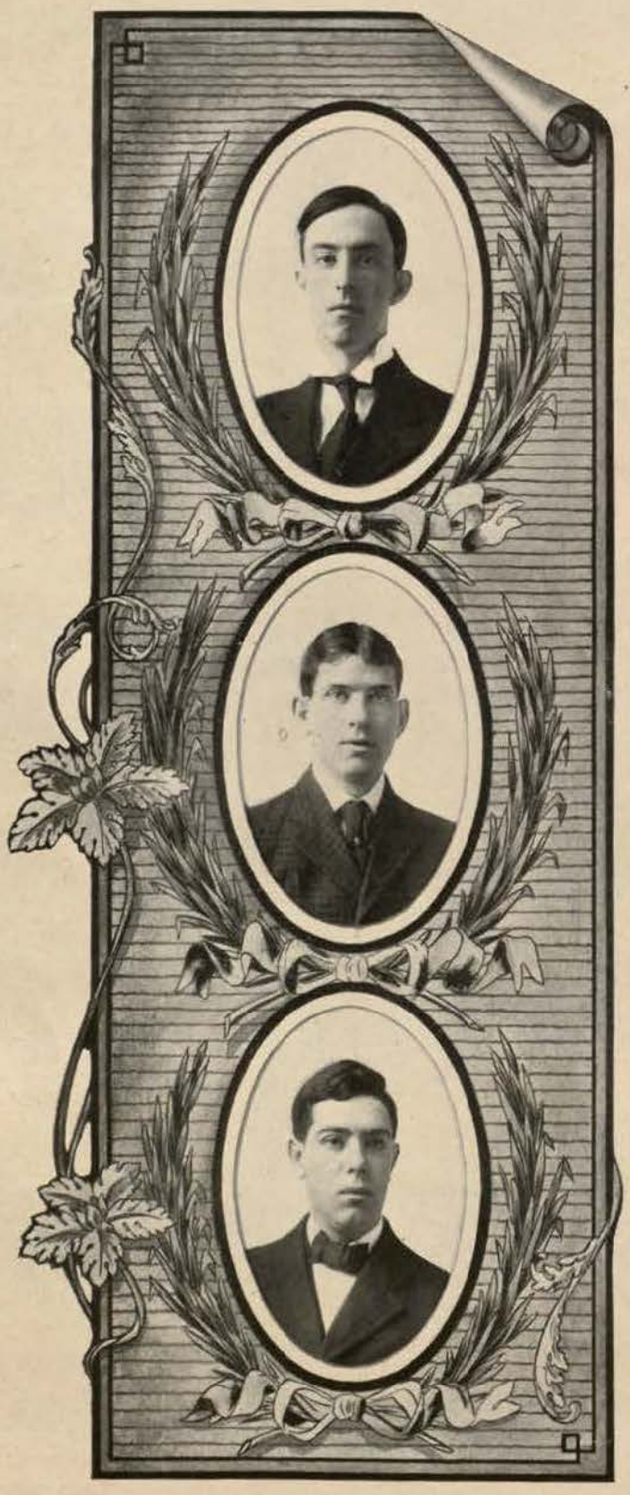
Kansas City, Missouri.

Track Teams 1904-1905.
"Happy Dutchman."
A future "Heine" Hoffman.

Van Buren Hinsch,

Davenport, Iowa.

Phi Delta Theta.
Track Manager 1907.
Rollamo Board 1907.
"The handsome Count."
Noted for his caution—always on the fence.
Reason: "I'm Married Now"—that's all.



Dibrell Pryor Hynes,

Fort Smith, Arkansas.

Kappa Alpha.
Tau Beta Pi.
Editor-in-Chief Rollamo Board 1907.
"Rameses II."
One of the 57 varieties of Dill pickles.
Thinks he's humorous.
Will study on provocation.

Horace Asahel Johnson,

Brookfield, Missouri.

Assistant in Surveying 1907-1908.
Kappa Alpha.
Tau Beta Pi.
Assistant to Dr. Trams.
His sweetheart said he MUST graduate, and he did.
Member Orchestra.

George Fredrick Kellogg,

Skidmore, Missouri.

Kappa Sigma.
Class Treasurer 1907.
"Skidmore."
His hobby: Afternoon naps and all night tete-a-tetes.
Dislikes shop on sunny afternoons.



Horace Tharp Mann.

Canyon City, Colorado.

Pi Kappa Alpha.
Tau Beta Pi.
"The Chemist."
"Hello, Bill."
Coefficient of absorption undetermined. The profession lacks data.

Ward Barr Mix.

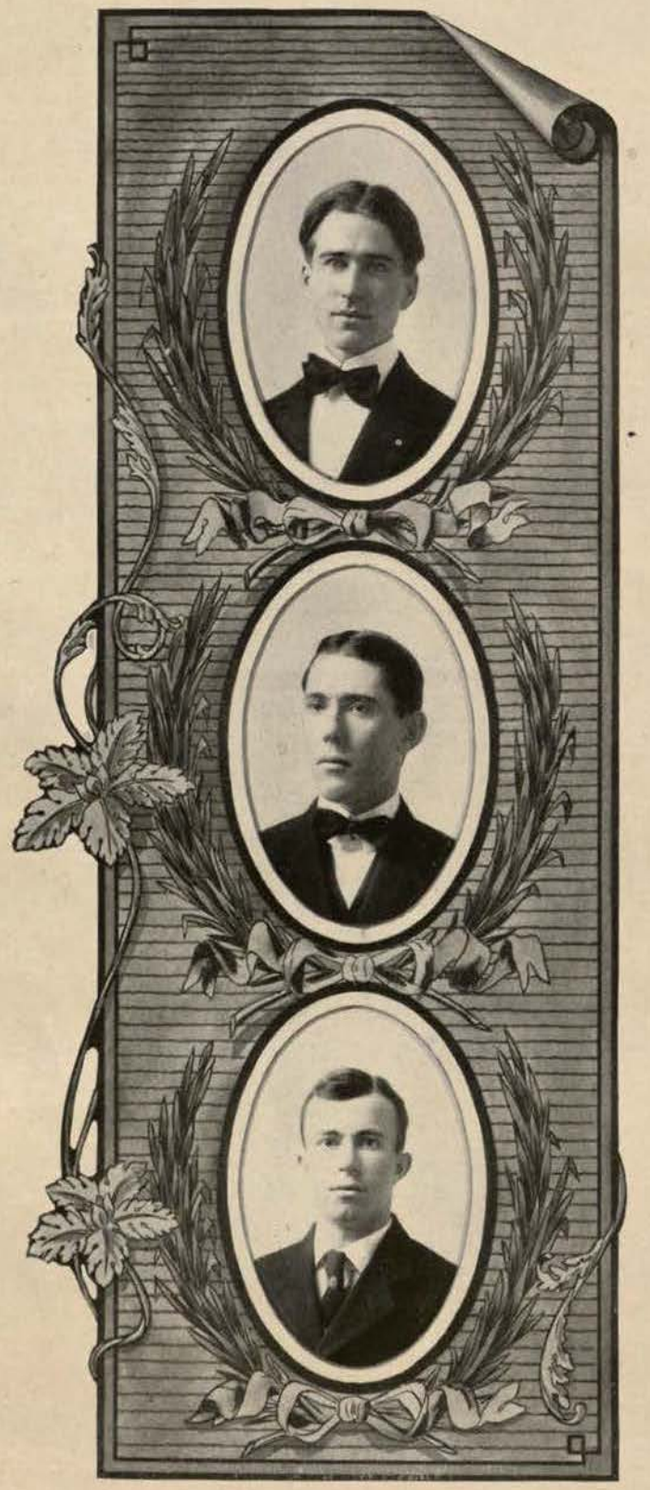
Hailesboro, N. Y.

Tau Beta Pi.
Assistant in Physics 1907-1908.
"Tubby."
Married and glad of it. Insists on outgrowing his clothes in every direction. Coefficient of expansion undetermined, the necessary data being lacking.

Robert Lee Mook.

Rolla, Missouri.

Manager Base-ball 1908
Varsity Base-ball.
Whereabouts can generally be determined by "Pete," the setter, that hangs around outside waiting for him.



Edwin Phelps Murray,

Lake City, Michigan.

Pi Kappa Alpha.
Tau Beta Pi.
Completely reformed. Learned from Dr. McRae how to prevent sparking, but never applied his knowledge.

Don Morgan Neer,

Winfield, Kansas.

Grubstaker.
Anatomical Shark.
Lives in Kansas. "Nuff Said."

Alfred Leo Nye,

Kearney, Nebraska.

Sigma Alpha Epsilon.
Theta Nu Epsilon.
Grubstaker.
Vice-President Class 1907.
"Bisbee Bill."
Is slowly, but surely, getting bald.
Delivered groceries in Bisbee. Thinks now he could deliver the goods—in mining.



John Christopher Radovich,

Bisbee, Arizona.

Y. M. C. A.
Member R-Way Club.
"Arizona Pete."
Dealer in mining stock and talking machines.
Trying to invent himself an electrically perfected voice.

John Joseph Sandford,

Dansville, New York.

Sigma Nu.
Varsity Foot-ball 1905.
President Athletic Association 1908.
Loves Winter.

Miles Sedivy,

Cleveland, Ohio.

Grubstaker.
Senior Basket-ball.
Class Foot-ball.
Vice-President Y. M. C. A. 1907-1908.
"De King." Has dreams of royal ladies and palaces.



Edwin Bryant Thornhill,

Grays Summit, Missouri.

Rollamo Board 1908.
Serious rival of Boyer.
Has a contagious laugh
Assistant Agitator.
John Bowles' Nemesis.

Leland Ross Walker,

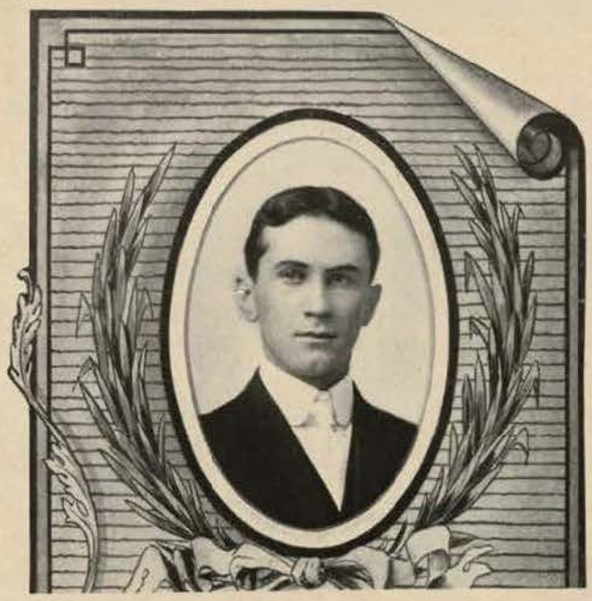
St. Louis, Missouri.

Sigma Nu
Manager Track Team 1908
Mild, sweet temper.
Noted fusser.

A. Emory Wishon,

Fresno, California.

Sigma Nu.
Theta Nu Epsilon.
President Sophomore Class 1906.
Manager Foot-ball 1906.
Rollamo Board 1907.
A congestion of ideas. Those well acquainted with him say that he speaks English.



Clyde Rex Wood,

Sheridan, Wyoming.

Kappa Sigma.
Rollamo Board 1907.
Assistant in Mathematics 1907-1908.
Assistant Manager Foot-ball 1906.
Treasurer Athletic Association 1906-1907.

Geologist of note. His only worry is third term Spanish. His only hobby, twelve lovey-dovey letters a week.



Senior Editor of the Rollamo

THE JUNIOR TRIP

As a part of the Mining curriculum the Junior Mining class is required to inspect the principal mining, milling, and smelting districts in the State of Missouri. This trip is taken after the close of the school year.

As a detailed account of the things we saw and studied would be vague and probably not of much interest to those who have not personally seen them, the "doings" of the class on the trip and their behavior and parlor manners will be disclosed subject to the criticism of those who know better.

On Monday, June 10th, the following Juniors left Rolla at 3:10 A. M., chaperoned by Miss Heller and Prof. Griswold: Bowles, "King" Sedivy, "Gloomy Gus" Baker, French, "Count" Hinsch, Mook, "Tubby" Mix, Murray, Anderson and Boyer.

Upon arrival at the Union Station in St. Louis, we donned our "digging" clothes and went to South St. Louis where we saw extensive loess deposits. A short walk brought us to some limestone quarries. In the sides of this large stone quarry many small fossil forms were found. The sink holes of South St. Louis were next visited, but nothing worthy of note happened except a few bum jokes by Mook and Mix, and a heated argument between "Gloomy Gus" and "King" Sedivy as to how old a limburger cheese sandwich had to be before it could crawl.

At two o'clock that afternoon we were off in a bunch for Ironton to visit every old thing and any old thing from rocks, outcrops, granite quarries and deep chasms, whose yawning depths seemed to stretch forth scrawny arms pleading to you to topple in, to antiquated maidens to whose entreaties the "fellers" had no aversions whatever.

The crowd was pretty tired and hit the "ticks" early. Murray and Bowles were somewhat restless that night and talked loudly and often in their sleep.

At the sound of the breakfast bell we found Boyer in the dining room swallowing his fifteenth cup of coffee and running ten checks on the potatoes.

Immediately after breakfast we started for Pilot Knob. On the way up we visited an old iron furnace and deserted mill. We also got lost and in the words of a member of the party, "with gentle tread we pranced up the side and turned around and pranced right down again." Bowles had a pull with the pilot and we finally got to the top; then somebody said, "What Have We Here?" Mook found a rock and had a serious thought.

Professor Griswold explained the probable derivation of the iron deposits and he noted that the mass was greatly altered since his last visit and that huge blocks had been precipitated down the steep slopes which he claimed was probably due to the San Francisco earthquake.

On our way back to Ironton, we entered a canyon and amidst cold blasts French proved that the draft issued from the cave at an angle of ninety degrees with Polaris and hence there was a polar bear in the cave, whereupon we all got cold feet and hot footed for the sanitarium where we were rewarded with a cold dinner by Mook's friend.

The class having decided by due trial that Boyer and French were nuisances, a worry to their Mothers and a disgrace to their forefathers, the two culprits were hung by the necks from a scaffold erected for the purpose as is seen by the accompanying photograph. Mook sprung the trap while Johnson chanted a verse from Dante's

THE JUNIOR TRIP—Continued

Inferno on the virtues of asbestos clothing and "Gloomy Gus" sang one from his extensive repertoire (?) "Oh Wouldn't that Make You Hungry?" Thus ended our sad task.

In the afternoon we walked three miles S. E. of Arcadia to a point of Geological interest, called the "shut ins" which is a superimposed river on a granitic mass. After inspecting the different rock formations, some one suggested a swim. The water was as clear as crystal and to one looking down into it it was very deceiving in regard to its depth. A few years before a resident of Ironton had lost his life by diving into several inches of water. Boyer, whom we had since resurrected, dived into about eight inches of water. When we brought him to consciousness he resembled a Rolla beefsteak which had been pounded for five days to make it tender.

We now returned to Ironton and Prof. Griswold lectured to us on our day's work. After the lecture we went down into the city for a little enjoyment. We found John Bowles giving a party to two of the town's favorites, Lillian Russell and Hetty Green. Light refreshments consisting of gum drops and peanuts on the half shell were served.

The next day we took the train for Iron Mountain and walked across to the Schneider granite quarries. Within a mile of the quarries a tremenduous rain set in and it was every one to shelter. Boyer with several others sought a hen house which chanced to provide cover. Boyer eyed the setting hens timidly, as he is wont to do, and then he asked if the roosters sat on the nest while the hens were off. No one knew and he will kindly cherish any information.

The quarries were of more than ordinary interest and we spent some time in studying the quarrying methods used here. From the granite quarries we ascended by a circuitous path to the top of a great granite mountain. We searched the mountain top for at least two hours for some disintegrated granite boulders. This so grieved poor John that he was heard to say, "Professor Griswold, don't you think that if there were a few more parties like us rambling around over this hill, the thing would be disintegrated?" We all checked John and hung him up to dry.

In the afternoon we visited the celebrated "Elephant Rocks," the largest disintegration boulders in the world and after a few pictures were taken we proceeded to Ironton, encountering on the way a few towns, of no name, in which there lived several pirates. The boys got busy and put every thing to flight, incidentally wrecking a few "schooners."

When we arrived at the foot of Shepherd Mountain, the highest mountain in Missouri, Prof. Griswold assembled the class for a climb over the top. Several were lost accidentally at the foot and took the shortest route to Ironton. These gentlemen are now technically known as "short sports."

That night we were entertained with a dance at the "Waldorf" next to the county jail. The dance was given in our honor by the Daughters of the American Revolution. Johnson and "Gloomy Gus" were the instigators, "Count" Hinsch and "Tubby" Mix, the chaperones.

The floor rules were:

No Elbowing.
No Turkey-Trotting
No Ladies' Choice. (For the benefit of John Bowle's company.)
No Monkeying with the fiddles.

Sedivy was ruled off the floor for dancing like a prize fighter.

Johnson played "Home Sweet Home" while Mook accompanied him with "Home is Nothing Like This" on the fiddle. After shaking hands all around we voted this the greatest social event of the year and the girls said that it had not been surpassed or even equaled since the Civil war. We knew the girls were not "kidding" us, as General Grant gave a similar affair in the same place and they said there was no comparison.

The following day, which was Friday, we embarked for Iron Mountain. The ore deposits were explained to us by Prof. Griswold and the old workings inspected by the class. The entire day was spent here, but nothing of interest happened other than the contribution of the fellows to foreign Missions by buying all the candy that


REMARKABLE!
ELEPHANT ROCKS
AN OLD LANDMARK
ALL ABOARD!
PARK HOTEL
STAR BOARDERS
BOYER AND FRENCH MEET THEIR JUST FATE
PROGRESS
FOSSILS AND FOSSILS
A PROBLEM IN DYNAMICS

THE JUNIOR TRIP—Continued

the wife of the station-master had to offer. The proceeds were sent to Africa to educate the savages. This ended the strictly geological part of the trip.

At four P. M. we left for Bismarck on our way to Doe Run. It was here that we bid au revoir to Prof. Griswold. The class thought that he was glad to get rid of us, as he never looked back.

While at Bismarck we discovered that our train over the Mississippi River and Bonne Terre R. R. for Doe Run left Doe Run Junction ten minutes before the arrival of the St. L., I. M. & S. R. R. This meant a five hour wait without depot or other shelter. We got our heads together and resolved to telephone to headquarters of the M. R. & B. T. R. R. and give the General Superintendent an imitation of Prof. Griswold and his geology class. We delegated one of our members to do the interviewing stunt with the G. S. It ran something like this:

The Imitation Prof. Griswold: "Is this the G. S. of the Bonne Terre road?"

G. S.: "It is."

Prof. G.: "I am Prof. Griswold of the Missouri School of Mines. I have with me the entire mining class of the school consisting of some two hundred nice young men. I wish to get to Doe Run to-night with the class and would consider it a great personal favor to myself if you would hold your train at Doe Run Junction until the Iron Mountain train arrives."

G. S.: "Why most certainly Professor, provided that the Iron Mountain train is on time."

Upon being assured that the train was on time the "Professor" hung up the receiver and heaved a sigh of self satisfaction. He was rudely brought to his senses by a lusty kick from his henchmen, John Bowles, who "opined" that this was the best joke that "Professor" Griswold ever played.

After our arrival at Doe Run we spent the evening at the roasting furnaces of the St. Joe Lead Co., watching the operations of "charging" and "pulling" the charges from the roasters.

Here we had a little "guessing contest." One of the fellows wrote a number on a slip of paper between one and fifty. The rest were to write down their guess and the one guessing the farthest away was "stuck" for the treats. The whole operation was for "Gloomy Gus" Baker's edification as he was heard to jingle his money several times during the day, always ending up by counting it. Every one wrote down his number, which, by a singular coincidence happened to be twenty-five, while "Gloomy," true to School training, guessed forty-two. "Gloomy" was "stuck" and amid all kinds of "joshing" was induced to "set up the crowd."

The next day Professor Draper joined us and we made a systematic tour of the entire concentrating plant.

While in Doe Run, we visited the private mineral collection of Mr. Graves of the St. Joe Lead Co. This is considered the best and most complete private collection in the United States. He entertained us with an instructive talk and gave us free use of his bowling alleys during the afternoon.

From Doe Run we went to Flat River and inspected the large mills of the Federal Lead Co., numbers 1 and 3. The Federal No. 3 is the largest and best equipped lead concentrating mill in the world. It has a capacity of 2400 tons per day and has several hundred jigs and Wilfley tables in operation.

The National Mill at St. Francois was next visited. While this mill is smaller than the rest, it is a model plant and they are at present making a radical departure in lead concentration by the installation of several Hancock jigs.

Later in the afternoon we tramped to Des Loge and were shown through the mill and mine of the Des Loge Consolidated Lead Co., by Steinmesch, a former School of Mines student.

While in Flat River we saw "Scotty" Grether and also Flick Lyneman. Felix said that he had been "skinning" mules, but as the mules wouldn't go they all went on a strike.

We now made a flying trip to Herculaneum to visit the smelter as it was Sunday and the mines at Bonne Terre, the next point of interest, were closed. The smelter handles a great amount of the ore from the S. E. district and is consequently very large. We spent the entire day looking over the works and saw many things

THE JUNIOR TRIP—Continued

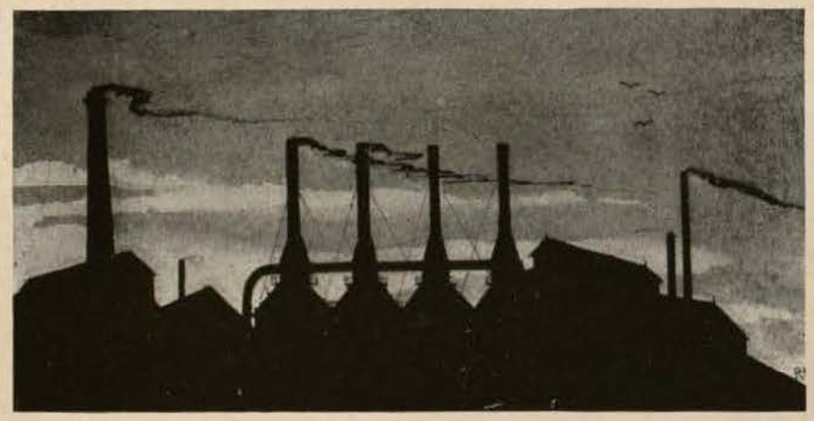
of interest. We returned to Bonne Terre that night and went through the Bonne Terre mill the next day. This mill differs very little from the general run of the mills in the district. It is somewhat older. The class was photographed in front of the Park Hotel at Bonne Terre.

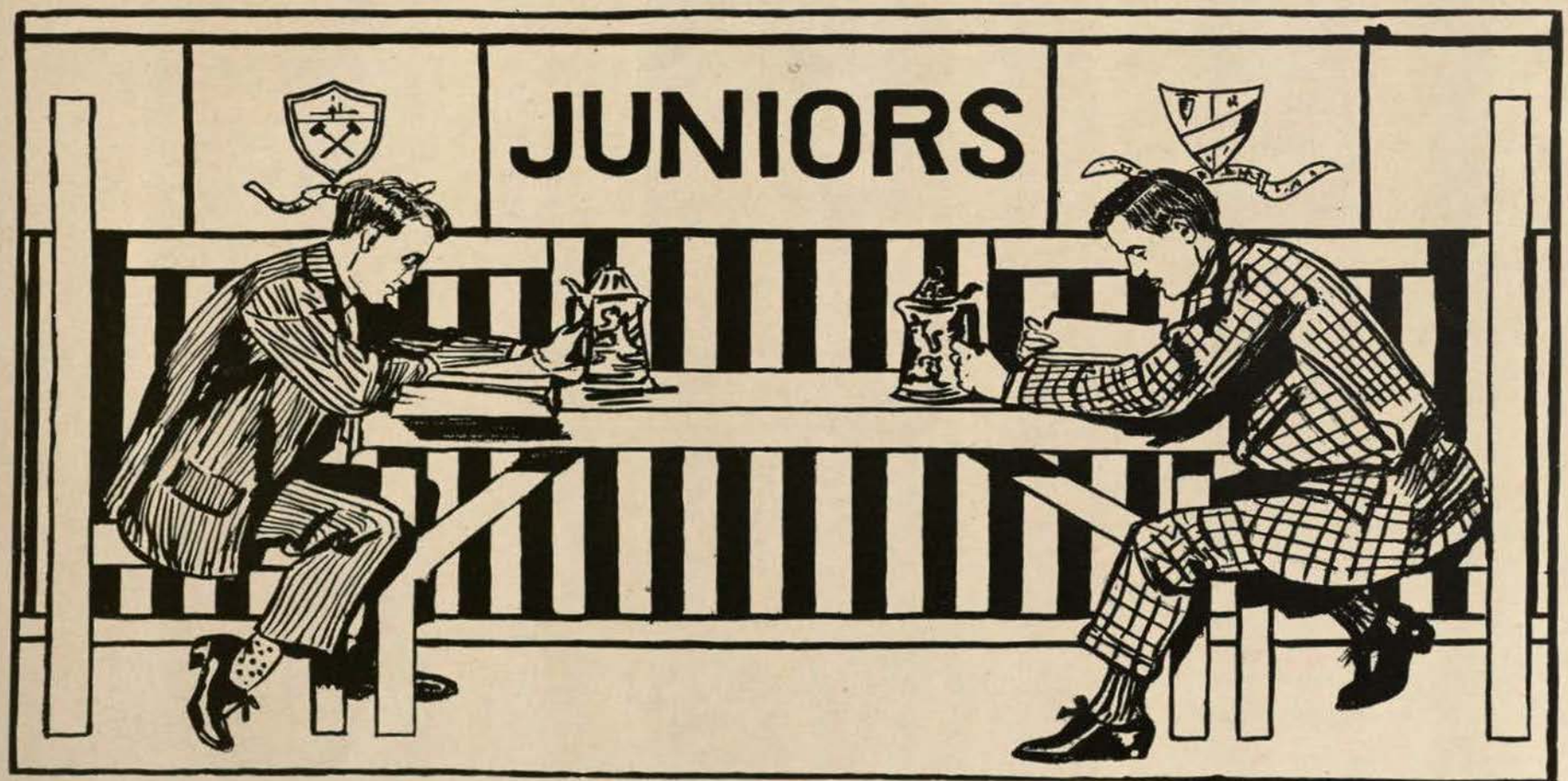
This ended our trip to the southeast and we now departed for St. Louis en route to Joplin. On the way we stopped over a day at Rolla.

At Joplin we really "got busy" and made good use of every minute of our time. We visited mine after mine and mill after mill.

We were joined by Lyneman and Compton while surveying in Webb City at the Great Portland mine. We made a complete survey of the underground workings and plotted the notes to scale.

The completion of the mine surveying officially ended the trip and one by one the fellows took this train and that train until we were all scattered. It will, however, always remain fresh in our memories as one of the greatest pleasures of our college career.




JUNIORS

JUNIOR CLASS HISTORY

What is a class history? Is its mission to chronicle little events and episodes of school life? Is it written to be read? We have all read class histories. These histories have told us breathlessly of how some ivy green, moss-covered Freshmen have come to college, and of the brotherly acts of the Sophomores in initiating them into the duties of school life. And in the same strain we have been informed that a certain baseball or football team made a score of six to their opponents' nothing and were for that reason victorious. The fact that history will repeat itself is a law as true as the law of the cosine. History should repeat itself, but should never phonograph itself.

There is a desire in the hearts of the members of any class to perpetuate the little happenings of college life. Though seemingly of little importance we love to cling tenaciously to the little events of the past.

And now it is the time to leave to posterity, the history of the class of 1909. It seems strange that we should be compelled to repeat anything that is also true of all the Junior classes that have played their little comedy or drama in the Missouri School of Mines. Have they not had their scenes and shifts? Have they not had their heavy players and comedians and other players that were just scene shifters or bad actors? Did not their audience (the Faculty) applaud the worthy ones and award them with E's and G's? So it has been with us. We have crammed and burned the midnight oil over the fat books of the Junior year, even as our predecessors.

So we will not record the inevitable characteristics of every Junior class, to which others have given so much valuable space.

The class of 1909 marked an historical era in the Missouri School of Mines. This class introduced college spirit into the school. At that time there were some who could not see "Why is college spirit." Now we see that it is of the stuff that will endure. There are other things in life besides the grind of the school room. And when the class of 1909 made the rule that no Freshman should wear corduroy trousers, it meant that ever after college spirit should be a characteristic of M. S. M. Hence on the appointed day of each year, the resisting Freshmen are all captured and bound with rope. There is a struggle but the Sophomores and Juniors overcome them. The Freshmen submit, then all classes of the school join in a procession and march to some secluded spot. There they sit around on the hill side in the shade, united in the bond of good fellowship, John makes a speech and Bill sings a college song and all of us who are now to each other, Joe, Bob and Jim, sing the chorus. Thus throughout the day and for the rest of the year, good-fellowship prevails.

That there should be an occasional day of pleasure mixed with our toil is agreed to by the ancient Omar, who says:

"Ah, make the most of what we yet may spend,
Before we too into the dust descend,
Dust unto dust and under dust to lie,
Sans wine, sans song, sans singer and sans end."

JUNIOR CLASS

NAME	WHERE FROM	OCCUPATION	KNOWN AS	MEMBER OF
ANDERSON, H. G. S.	Kearney, Neb.	Society	Andy	Kappa Alpha.
BAUERIS, W. A.	Chicago, Ill.	Bowling	De T'ug	Kappa Alpha.
BECKNER, F. C.	Salt Lake City, Utah.	Drawing	Slivers	Pi Kappa Alpha.
BEDFORD, A. H.	Auckland, New Zealand	Quail Hunting	Chooks	R-Way Club.
BOWLES, J. J.	Lake Springs, Mo.	Football	Bisbee Kid	
BOYER, FRED.	St. Louis, Mo.	Book Worm	Booger	Grubstakers.
BUTLER, REGINALD H. B.	Leeds, England	Cartoonist	Reggie	Foreign Club.
BAUMGARDNER, J. W.	Abingdon, Ill.	Grubstaker	Headlight	Grubstakers.
CHAMBERLAIN, E. L.	Rolla, Mo.	Surveyor	Clayheels	
CHINN, WALTER	Hannibal, Mo.	Traveling	Chiney	
CLARKE, W. D.	Rolla, Mo.	Fireman	Bud	Sigma Nu.
CLARK, W. N.	Jewell City, Kas.	Agitator	Willie	Delta Tau Delta.
COMPTON, J. C.	Independence, Mo.	Student	Comp	Sigma Nu.
DOBBINS, WALTER	Champaign, Ill.	Pie Eater	Dibbins	Lucky Strike.
DON, D. F.	Rock Island, Ill	Cloud Adjuster	Don	Grubstaker.
DOSENBACH, B. H.	St. Louis, Mo.	Hunting Trouble	Dosie	Kappa Sigma.
DUNN, F. S.	Waukegan, Ill.	Artist	Dunney	Pi Kappa Alpha
ELICAÑO, VICTORIANO	Masinloc, Zamb., P. I.	Mathematician	Primo	Foreign Club.
EASLEY, G. A.	Nevada, Mo.	Entertaining Dean	Gawge	Kappa Alpha.
GARST, H. S.	Cabool, Mo.	Pennant Dealer	H. O. G.	
GARZA, ANTONIO	Saltillo, Mexico	Wrestler	Mex	Foreign Club.
HALL, W. S.	Pleasanton, Kas.	Jollying	Bill	Sigma Nu.
HOLMES, O. W.	Rolla, Mo.	Assayer	Ob	
HARLAN, J. D.	Moberly, Mo.	Instructing the Professors	J. D.	
HUMPHREY, B. W.	Rolla, Mo.	Write for Information	Chicken	Grubstaker

JUNIOR CLASS—Continued

NAME	WHERE FROM	OCCUPATION	KNOWN AS	MEMBER OF
ILLINSKI, A. X.	Rolla, Mo.	Blowing his Own Horn	Doc	Kappa Alpha.
JONES, W. H.	St. Louis, Mo.	Coachman	Billy	Kappa Sigma.
JUDY, P. S.	Camp Point, Ill.	Electioneering	Phil	Grubstaker.
KENDRICK, R. T.	East St. Louis, Ill.	Mining	Noisy	Pi Kappa Alpha.
KILLIAN, R. D.	Perryville, Mo.	Taking care of Peterson	Waup	
KIBE, H. C.	Davenport, Iowa	Advertising New Mexico School of Mines	Kibby	Pi Kappa Alpha
LADD, HAMMOND	Rolla, Mo.	Playing Dolls	Happy	
LANGSDALE, B. W.	Kansas City, Mo.	Worrying Dobbins	Langy	R-Way
LEMING, P. B.	Cape Girardeau, Mo.	Raconteur	Web-foot	Kappa Alpha.
LOVERIDGE, F. R.	Batavia, N. Y.	Class President	Lovey	Grubstaker.
McCRAE, R. F.	Rolla, Mo.	Looking Nice	Buster	Kappa Alpha.
MICHAEL, P. F.	Rolla, Mo.	Taking Care of Garst	Mike	
MAZANY, M. S.	Dunkirk, N. Y.	Conversation	Colgate	Grubstaker.
NACHTMAN, F.	Junction City, Kas.	Boosting Kansas	Nox	Kappa Sigma.
OHNSORG, N. L.	Rolla, Mo.	Rough-Housing	Cecil	
PEESO, W. D.	Junction City, Kas.	Ball Player	Willie	Pi Kappa Alpha.
PETERSON, H. W.	New Rochelle, N. Y.	Snorting	Pete	
POLLARD, A. L.	Batavia, N. Y.	Diplomat	Chief	Beta Theta Pi, Tau Beta Pi, Theta Nu Epsilon
SHAH, A. M.	Vilma, Russia	Bomb Thrower	Nihilist	Foreign Club.
TALWAR, F. C.	Gujranwala, India	Mystery	Hinny	Foreign Club.
WANDER, E.	Chicago, Ill.	Hotel Manager	Count	
WHITENER, O. M. C.	Fredricktown, Mo.	Making Fudge	U. M. C.	Kappa Sigma.
WOLF, E. J.	Mt. Vernon, Ind.	Chemist	Mose	
WATSON, R. W.	Salt Lake City, Utah.	Fussing	Gloomy	Sigma Nu.



Sophomores.

History of the Class of 1910

We are now Sophomores and have lost, we trust, some of that characteristic verdancy and asinine conceit of our High School days. We will not admit that we were ever as green as the sadly infantile Freshman class, still there was a certain awkwardness which we now feel we have lost.

Our class, imbued with the genius of creation, started to make history upon our arrival at school about the middle of September, 1906. The Sophomore committees prevailed upon us "with soft persuasive arts" to yield ourselves to their customs. We will ever be grateful for the experience gained at the hands of 1909. It enabled us this year to better minister to the manifold needs of 1911.

You will read on another page of this book of the conflict of our illustrious class and the wantonly perverse Freshmen. As usual, right and justice prevailed and we had the satisfaction of seeing the Freshmen adorned with green caps—foolish little caps which signalized the extent of their characteristic Freshman childishness.

You all know, Oh Wise Ones! of our departed Bromo Seltzer (the ten cent size). For his sake it was that we posed as purveyors of the nervous headache. We will say nothing of this—words can add nothing to the indescribable.

Many of our dear class mates have departed for scenes of lesser strife. Yet our class is still strong in its forty-five members. There are forty-five princes in the bunch. We say this without our old H. S. conceit, but with the firm consciousness of manly knowledge. We have wrested honors from the famous Junior class and have overcome the potentially famous Freshman. We have been victorious in football, basketball and greater than all this—in scholarship.

We are loyal to the high ideals of M. S. M. "Perfection" shall be our shibboleth. Earnestly hoping to carry ourselves honorably amid the trials of next year we leave until then, the further chronicling of our "little joys and sorrows."

SOPHOMORE CLASS

R. S. ALLEN, Bobby, Kappa Alpha.

"Sir, tho' I am not splenetive and rash
Yet I have in me something dangerous."

F. O. BLAKE, Jr., Sigma Nu. 'Varsity Baseball.

"A combination and a form indeed,
Where every God did seem to set his seal
To give assurance to the man."

D. W. BLAYLOCK, Grubstaker.

"Commerce follows in his wake."
"Neither a borrower or a lender be."

"SCOTCH" BUNTEN, Grubstaker.

Great Engineer in the chrysalis. "Rara-Avis."

CHARLES A. BURDICK, R-Way.

A lover of sport. Buys stamps in his spare time.

JACK CLARK, Kappa Sigma.

"Give me an ounce of sen-sen good apothecary, to sweeten my imagination

HARRY W. CONNELLY, Steward of the R-Way Club.

All smiles although he has many social duties to worry him

"NIG" COON, Lucky Strike.

"A countenance more in sorrow than anger."

A. M. and M. H. DETWEILER, Lucky Strike Club.

Damon and Pythias. Brothers of widely different tastes.

"CHILI" DIAZ, Foreman of the Spanish Club.

Dreams in Castellano. Tried to introduce Esperanto in the Trig class.

"BOB" DYE, Class Football and Basketball.

A victim of anarchy. Sympathizes with the nobility.

GUY DYKES, The Man they Always Strike First for Class Dues.

Said to have an awful thirst—for ice cream sodas.

KEITH FRAZER, Lucky Strike Club.

Used index card system in Surveying notes.

"JAKE" FORMAN, Lucky Strike Club.

Haunts Salem road.

SOPHOMORE CLASS—Continued

MONROE FARRAR,

Thinks Boyer is a great personage. Well, what an original idea!

"CUPID" GRAY, Sigma Nu.

From Ohio, but made good. Claims Buck Owen was the laziest man in Topog party. (Must be some mistake.)

ANTONIO GARZA, "Mex."

Once played football, but swore off before the end of the season.

CLAY GREGORY, 'Varsity Baseball, 1907. 'Varsity Football, 1907.

"Let a fellow sing of the little things he cares about,
If a fellow'll fight for the little things he cares about,
With the weight of a single blow."

"HARRY" HARRIS, Sigma Nu.

"Many grains of incense on the same altar. One falls first, another falls after; but it makes no difference."

"COCKY WISE" HARRISON, Member of Faculty.

If you want to know anything, ask Cocky.

F. W. HILL,

Stem winder, full jeweled, hair trigger, brass lined.

EARL INSLEY, Kappa Sigma.

Has a chronic air of "Oh the deuce, what's the use."

"THE" JOBES, 'Varsity Football.

A graceful man with an airy way. Intimate friend of Taft.

"BAUCHSCHMARTZEN" KARTE.

A small boy, with an intellectual forehead, doing missionary work among the Grubstakers.

ELMER LIST, Lucky Strike.

"Am I my brother's keeper?"

V. H. McNUTT, "Mac" Class Basketball.

Looks like a student, but has the Spring recreation habit.

C. R. MILLER, Lucky Strike.

We refer you to Vogt for information.

H. E. MINOR, Pi Kappa Alpha, 'Varsity Baseball, '07.

Maverick with wonderful powers of keeping still.

"RUBE" MORGAN, 'Varsity Football, '07.

Born and raised in Rolla. Claims he can milk a cow even with a dress suit on. Bowls with Prof. Dean.

"BUCK" OWEN, Pi Kappa Alpha, 'Varsity Baseball, 1907.

Innocent expression. Billiard "Shark." Lazy as an angora cat with the malaria.

ALBERT PARK.

"Virtue rewards the toils of virtue." That's all.

SOPHOMORE CLASS—Continued

L. J. PORRI.

"Blow, blow, blow." Aspires to Gotty's job.

CULLY PIERCE, Grubstaker.

Everybody's friend. Wonderful sense of humor, smiles even in surveying.

"BABE" PORTH, Kappa Sigma.

Regrets that he broke into society so young. "Great plague to be so handsome."

"DOCTOR" PHILLIPS, Lucky Strike.

Insufferable rough neck and prides himself on the same. Never idle—never goes fussing.

CARY RAMEY, Kappa Alpha, Football, '07.

Claims to be an expert chicken thief. "And thereby hangs a tale."

"DUTCH" RIEDE, Grubstaker.

Canyon City, Colorado. Can play "Meditation" on the piano. Always occurs in combination with Bunten and Minor.

S. K. SCHMIDT, 'Varsity Football, '07.

Believes in the forward pass.

EARL SMITH.

Van's brother from Boston Tech. That's all.

"GLADYS" SMITH, Pi Kappa Alpha.

Lowney's Chocolate fiend. Offers reward for return of powder puff.

"VAN" SMITH, Sigma Nu.

Looks like he always had a nervous headache. Said to have smiled once. "Swamp angel" from Arkansas.

"DUNC" SMITH, Kappa Alpha.

Quick, jerky stride. Awfully good at convincing Profs. Smiles even during exam. week.

STEWART, "STEW," Lucky Strike.

Never happy away from Qualitative lab. Insists on coming to M. S. M. dances as a "stag."

"THORNY," President of the Sophomore Class.

Married happily, but still one of the boys. Still has a charivari coming to him.

TRAUGHBER, Lucky Strike.

Wants to be a "kidder." Just found out that Connelly is ticklish.

"DICK" TOWNSEND, from Colorado. R-Way.

Said to be a great musician, picking on a chicken bone.

GEORGE VOGT, "Hattie," Kappa Alpha.

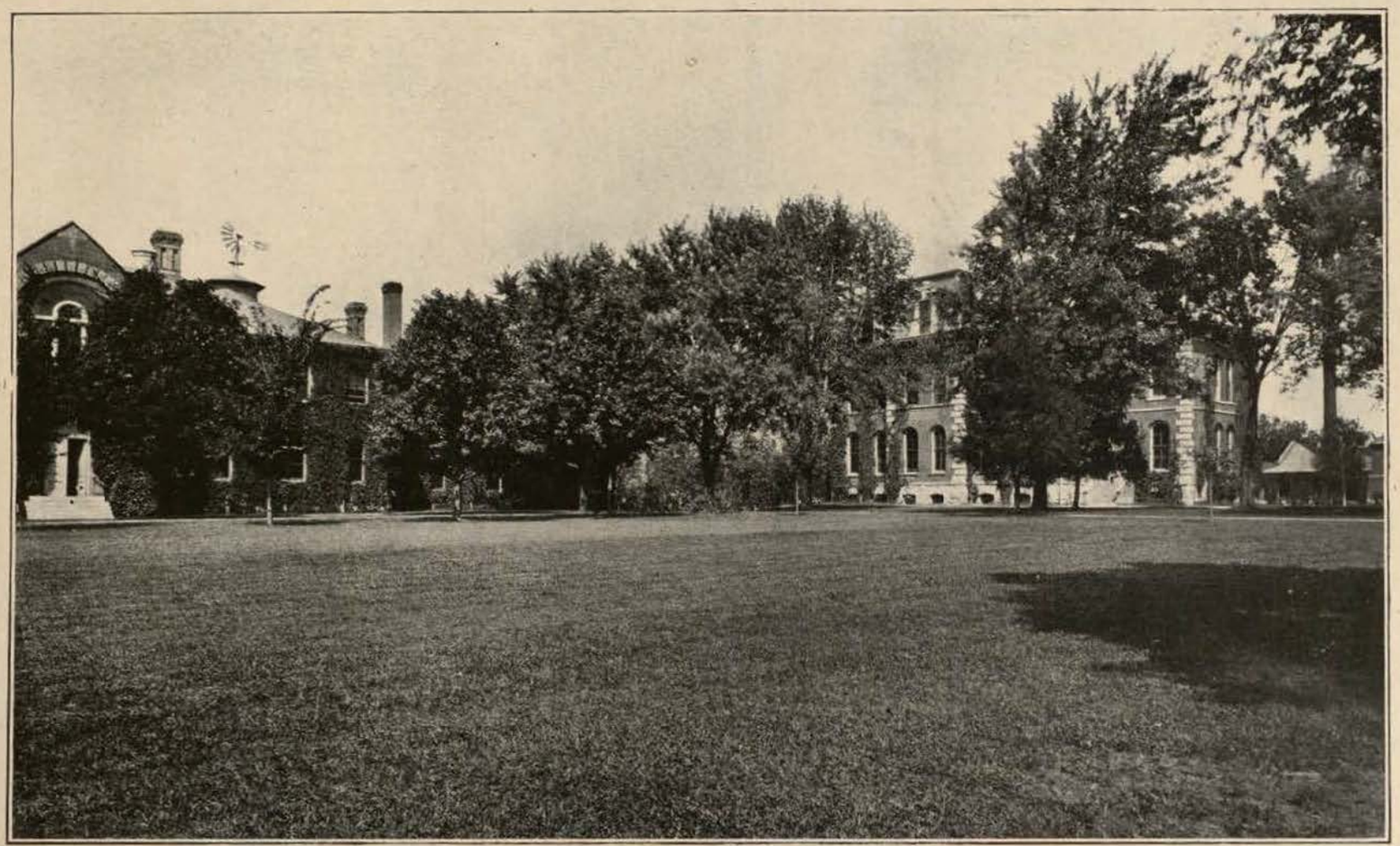
Distinguished from all the other Sophs by his broad brim hat.

"RHINO" VOGT, Pi Kappa Alpha.

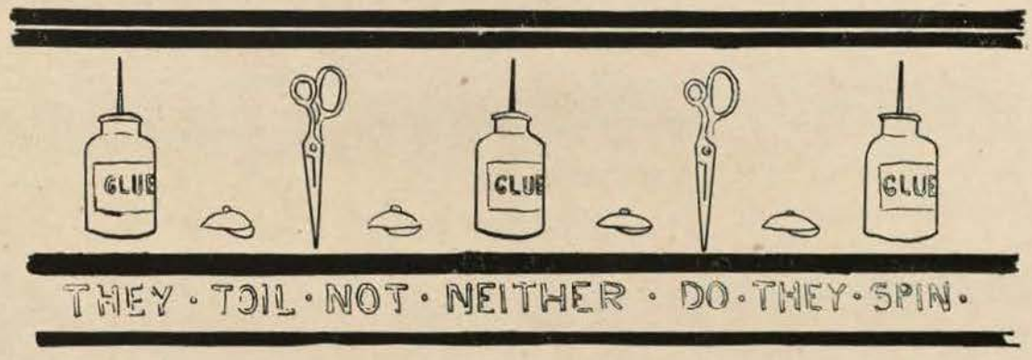
Sleepy look. Adamantine lustre on nose. Basial sitting posture. "The smile that won't come off."

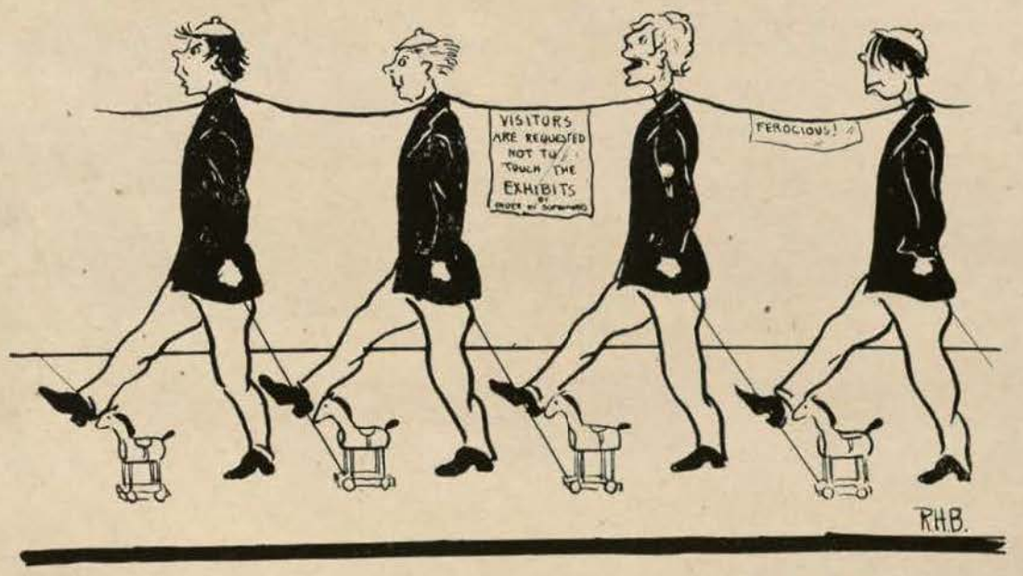
CARLOS VALENCIA, Jr., A Musician.

Can be as festive as an American at times.



VIEW ON CAMPUS


GLUE
GLUE
GLUE
THEY · TOIL · NOT · NEITHER · DO · THEY · SPIN ·


VISITORS ARE REQUESTED NOT TO TOUCH THE EXHIBITS
FEROCIOUS!
RHB.

FRESHMEN.

FRESHMAN CLASS HISTORY

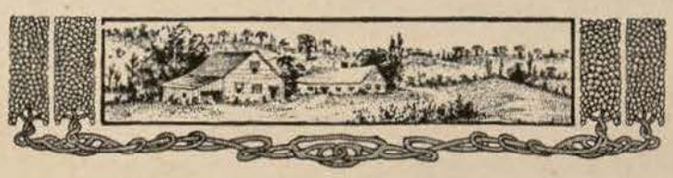
The history of the Freshman Class properly begins with the organization of forces in the first meeting of the members of the class. This was held on the evening of the seventeenth of September in a lonely field east of town for the purpose of adopting some plan of action to suppress the hazing of our classmates. Here, under the guidance of "Chicken" Humphrey, we were lined up several times and counted off a like number of times much to the credit of our leader and adviser.

During the remainder of the time previous to the opening of school we did our best to keep out of the clutches of the Sophomores. Many of us, however, have faint recollections of Sophomores climbing in the windows via the porch and of the subsequent early morning exercise in the blanket along with all the other time honored and regulation stunts.

Shortly after the hazing season closed we met in Chem Hall and elected the following officers: R. B. Mitchell, President; O. A. Randolph, Vice-President; B. H. Cody, Secretary, and H. H. Jones, Treasurer.

Ensuing events were full of trials and tribulations. Obnoxious rules were made and enforced by the Sophomores, but it cannot be said that the class of 1911 failed to fight for its rights. We suffered defeat, but retain as a memory the "green postage stamps" once so galling to our wounded pride.

The affair in Picnic Valley closed the hazing season and brought the four classes together in a toast to the College and the Freshmen. The warm glow of affection for the "Fellows" is enhanced as we gaze in retrospect over the events of that day and evening when every one was for every one else and "All for M. S. M."



FRESHMEN

ABBOTT, EDWARD REECE	Mansfield, Ohio.
ABERNATHY, G. ELMER	Willow Springs, Mo.
ADAMS, HENRY FARNUM	Prescott, Ariz.
ALLEN, ERNEST	Forest, Ill.
BALL, RALPH HARLAN	Gardner, Kas.
BEACH, JAMES K.	Kansas City, Mo.
BINGHAM, RAYMOND ALEXANDER	Watertown, Mass.
BLAKE, FRUE WALTER	Maywood, Ill
BOZA Y ARZCARBE	Lima, Peru, S. A.
BRADT, ALBERT LEONARD	St. Louis, Mo.
BURGHER, CLARENCE	Rolla, Mo.
CAPLES, RUSSEL BIGLOW, Jr.	Glasgow, Mo.
CARROL, ROLAND T.	Baltimore, Md.
CHASE, JAMES HOWARD	Logansport, Ind.
COASKE, PAUL E.	St. Louis, Mo.
CODY, BENJAMIN HORACE	St. Joseph, Mo
COOVER, LOUIS LINCOLN	Springfield, Mo.
COPELAND, ROBERT N.	Chelsea, Mass.
CURLESS, FRANK	Liberal, Mo.
DIAZ, THEODORE WASHINGTON	Santiago, Chili, S. A.
ELMORE, CARLOS ENRIQUE	Lima, Peru, S. A.
ENGLEMANN, EDWARD W.	Cape Girardeau, Mo.
FLYNN, JAMES FRANCIS	St. Joseph, Mo.
FORD, HAROLD PERCY	St. Joseph, Mo.
FORRESTER, D. L.	Oakland, Cal.
GARCIA, EMILIO	Rinconada, N. L., Mexico.
GARZA, ANDRE	Saltillo, Coah, Mexico.
GARCIA, HERMAN	Rinconada, N. L., Mexico.
GROSBERG, ALEX.	St. Louis, Mo.
JETT, DANIEL BOONE	Sedalia, Mo.
HARRIS, D. DEANE	Rolla, Mo.
HEYDECKER, CORAT F.	Waukegan, Ill.
JONES, HOWARD HILTZ	Kansas City, Mo.
JONES, KENNETH HUGH	Lawrence, Neb.
KLINE, DEWEY M.	Rolla, Mo.
KURZ, ADOLPH	St. Louis, Mo.
LIST, EDGAR	Cape Girardeau, Mo.
LUNAC, OTTO ALLEN	St. Louis, Mo.
MACOMBER, SUMNER COOLEY	Des Moines, Iowa.
MANN, FRANK CLARK	Springfield, Mo.
MARTIN, HARRY H. Jr.	Fredricktown, Mo.
McGOUGHRAN, JAMES E.	New York City, N. Y.
MITCHELL, ROBERT BRUCE	Walker, Mo.
MOORE, LLOYD WEAVER	Hannibal, Mo.
NACHTMAN, RALPH	Junction City, Kas.
NASON, STANLEY L.	West Haven, Conn.
PARENT, GEORGE LEE	Marshall, Mo.
PUDEWA, ARTHUR	Chicago, Ill.

FRESHMEN—Continued

RADCLIFFE, DONALD HEWSON	Webster Groves, Mo
RAJ, SLIO	Lahore, India.
RANDOLPH, OSCAR ALAN	Kansas City, Mo.
SMITH, G. R.	Utica, Mo.
SMITH, JAS. W., Jr.	Miller School, Mo.
STROUP, THOMAS ANDREW	Lewistown, Mo.
SWENSON, HOWARD H.	Torreon, Coah., Mexico.
TAYLOR, CLARENCE M.	Jackson, Mo.
TOWNSEND, FRANK EDGAR	Belgrade, Mo.
WHEELER, JOSEPH FRANKLIN	Marshall, Mo.
WILLIAMS, CONWAY GUILD	Jackson, Mo.
WOLF, HAROLD M.	Mt. Vernon, Ind.



Sept 12th First Freshman arrives
(Much impressed at the sights of Rolla.)

SPECIALS

BECKNER, F. G.	Corpus Christi, Texas.
BEDFORD, A. H.	Auckland, New Zealand.
CHEW, L.	St. Louis, Mo.
DE JONG, E. T.	St. Louis, Mo.
ESPRIU, R.	Mexico City, Mexico
GOLDMAN, J. M.	St. Louis, Mo.
JONES, W. H.	St. Louis, Mo
OWEN, H. S.	St. Louis, Mo.
PILCHER, G. G.	Winfield, Kas.
RENFROW, T. O.	Rolla, Mo.
RIEDE, F. E.	Canyon City, Colo.
SHOCKLEY, P. C.	Monterey, N. L., Mexico
SIEGMUND, W. F.	St. Louis, Mo.
SMITH, D. S.	Rockford, Ill.
STAHL, W. G.	Little Rock, Ark
TOMLINSON, E. L.	El Paso, Texas.
TOWNSEND, R. H.	Aspen, Colo.
VOGT, J. G.	Trenton, Ill.
WEENS F. E.	Sulphur, Okla





VIEW ON CAMPUS


FRATERNITIES
PMB

LOCAL CHAPTERS
OF
NATIONAL FRATERNITIES

GAMMA XI OF SIGMA NU

BETA ALPHA OF KAPPA ALPHA

BETA CHI OF KAPPA SIGMA

ALPHA KAPPA OF PI KAPPA ALPHA

THETA NU EPSILON

BETA OF MISSOURI OF TAU BETA PI


LENETH

Gamma Xi of Sigma Nu

INSTALLED JANUARY 23, 1903

COLORS :

White, Gold and Black

FLOWER :

White Rose

YELL :

Hi rickety hoop de doo
What's the matter with Sigma Nu?
Hullabaloo
Terragahoo
Ausgeseichnet
Sigma Nu

SIGMA NU

Gamma Xi Chapter

'08

Harold T. Mapes.
A. Emory Wishon.
J. Joseph Sandford.
Leland R. Walker.

'09

William S. Hall.
J. Crawford Compton.
Ralph W. Watson.
William D. Clarke.
Howard D. Gray.

'10

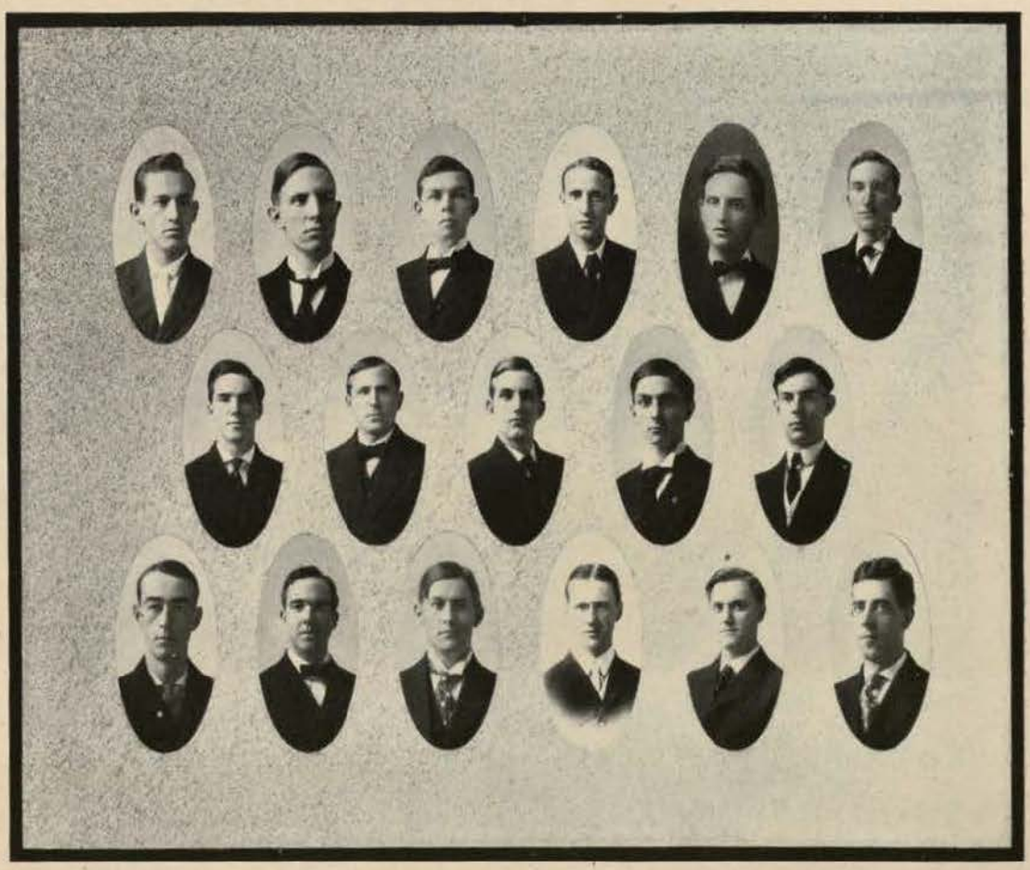
Walter T. Harris.
Geo. T. Twyman.
Frank O. Blake.
A. Van H. Smith.

'11

Robert N. Copeland.
Aubrey G. Pilcher.
James H. Chase.
Roland T. Carroll.

Frater En Urbe

Felix A. Lyneman.



F. O. BLAKE, Jr. G. T. TWYMAN, Jr. H. D. GRAY. J. J. SANDFORD. V. H. SMITH. L. R. WALKER.
A. G. PILCHER. W. S. HALL. J. C. COMPTON. W. D. CLARKE. R. N. COPELAND.
J. H. CHASE. W. T. HARRIS. F. A. LYNEMAN. H. T. MAPES. A. E. WISHON. R. W. WATSON.


ΚΑ
DIEU ET LES DAMES

KAPPA ALPHA

Established 1865 at
Washington and Lee University

BETA ALPHA

Installed April 27th, 1903

KAPPA ALPHA
BETA ALPHA CHAPTER

Frater En Urbe Chas. L. Woods

FRATRES EN COLLEGIO

'08

Richard Edward Armstrong.
Hector George Sylvester Anderson.
Dibrell Pryor Hynes.
Horace Asahel Johnson.

'09

William Albert Baueris.
George Albert Easley.
Alexis Xavier Illinski.
Paul Bauchmann Leming.
Rowe Francis McCrae.
Carey Floyd Ramey.

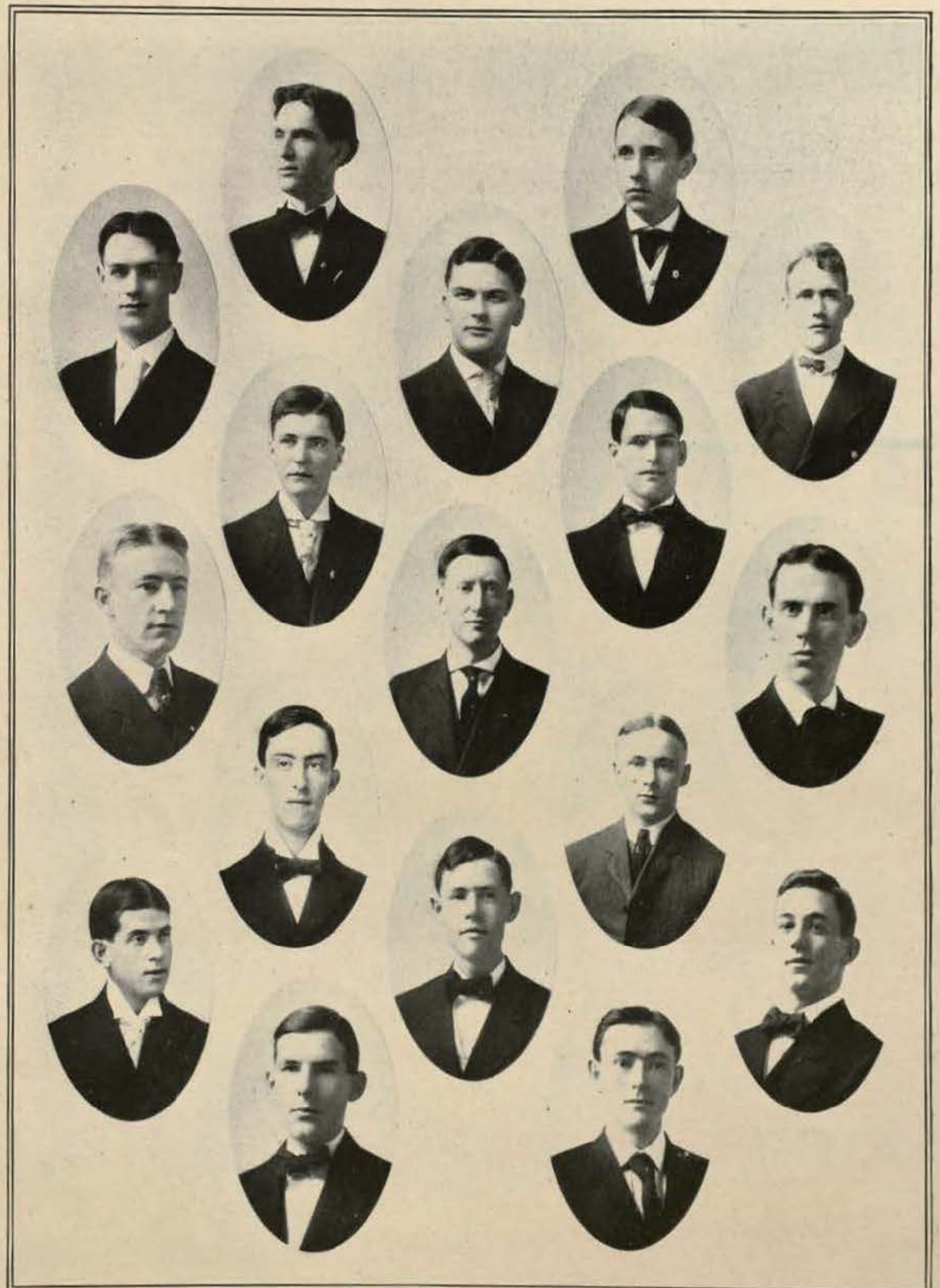
'10

Robert Sexton Allen.
Duncan Slater Smith.
George Clark Vogt.

'11

Sumner Cooley Macomber.
Louie Lincoln Coover.
Howard Hubbard Swenson.
Edward William Englemann.

Colors: Crimson and Old Gold.
Flowers: Red Rose and Magnolia.



RAMEY.
ARMSTRONG.
JOHNSON.

ILLINSKI.
LEMING.
HYNES.
SWENSON.

VOGT.
ANDERSON.
COOVER.

ALLEN.
MACOMBER.
BAUERIS.
EASLEY.

McCRAE.
SMITH.
ENGELMANN.

KAPPA ALPHA



ESTABLISHED 1865

ACTIVE CHAPTERS

Alpha	Washington and Lee Univ., Lexington, Va.
Gamma	University of Georgia, Athens, Ga.
Delta	Wofford College, Spartansburg, S. C.
Epsilon	Emory College, Oxford, Ga.
Zeta	Randolph-Macon College, Ashland, Va.
Eta	Richmond College, Richmond, Va.
Theta	Kentucky State College, Lexington, Ky.
Kappa	Mercer University, Macon, Ga.
Lambda	University of Virginia, Charlottesville, Va.
Nu	Alabama Polytechnic Institute, Auburn, Ala.
Xi	Southwestern University, Georgetown, Texas.
Omicron	University of Texas, Austin, Texas.
Pi	University of Tennessee, Knoxville, Tenn.
Sigma	Davidson College, Davidson, N. C.
Upsilon	University of North Carolina, Chapel Hill, N.C.
Ph	Southern University, Greensboro, Ala.
Chi	Vanderbilt University, Nashville, Tenn.
Psi	Tulane University, New Orleans, La
Omega	Central University of Kentucky, Danville, Ky.
Alpha Alpha	University of the South, Sewanee, Tenn.
Alpha Beta	University of Alabama, University, Ala.
Alpha Gamma	Louisiana State Univ., Baton Rouge, La.
Alpha Delta	William Jewell College, Liberty, Mo.
Alpha Zeta	William and Mary College, Williamsburg, Va.
Alpha Eta	Westminster College, Fulton, Mo.
Alpha Theta	Kentucky University, Lexington, Ky.
Alpha Kappa	University of Missouri, Columbia, Mo.
Alpha Lambda	John Hopkins University, Baltimore, Md.
Alpha Mu	Millsaps College, Jackson, Miss.
Alpha Nu	The George Washington Univ., Washington, D.C.
Alpha Xi	University of California, Berkley, Cal.
Alpha Omicron	University of Arkansas, Fayetteville, Ark.
Alpha Pi	Leland Stanford, Jr., University, Stanford, Cal.
Alpha Rho	West Va. University, Morgantown, W. Va.
Alpha Sigma	Georgia School of Technology, Atlanta, Ga.
Alpha Tau	Hampden-Sidney College, Hampden-Sidney, Va.
Alpha Upsilon	Univ. of Mississippi, University, Miss.
Alpha Phi	Trinity College, Durham, N. C.
Alpha Chi	Kentucky Wesleyan Univ., Winchester, Ky.
Alpha Omega	N. C. A. & M. College, Raleigh, N. C.
Beta Alpha	Missouri School of Mines, Rolla, Mo.
Beta Beta	Bethany College, Bethany, W. Va.
Beta Gamma	College of Charleston, Charleston, S. C.
Beta Delta	Georgetown College, Georgetown, Ky.
Beta Epsilon	Delaware College, Newark, Del.
Beta Zeta	University of Florida, Gainesville, Fla.
Beta Eta	University of Oklahoma, Norman, Okla.
Beta Theta	Washington University, St. Louis, Mo.

ALUMNI CHAPTERS

Alexandria, La.	Louisville, Ky.
Anniston, Ala.	Macon, Ga.
Asheville, N. C.	Memphis, Tenn.
Atlanta, Ga.	Mobile, Ala.
Augusta, Ga.	Montgomery, Ala.
Baltimore, Md.	Muskogee, Okla.
Baton Rouge, La.	Nashville, Tenn.
Boston, Mass.	Natchitoches, La.
Canal Zone.	New Orleans, La.
Charlotte, N. C.	New York City.
Chafleston, W. Va.	Norfolk, Va.
Chattanooga, Tenn.	Oklahoma City, Okla.
Centerville, Miss.	Petersburg, Va.
Columbia, Ga.	Philadelphia, Pa.
Dallas, Texas.	Pittsburg, Pa.
Franklin, La.	Raleigh, N. C.
Griffin, Ga.	Richmond, Va.
Hampton, Nwpt. News.	San Francisco, Cal.
Hattiesburg, Miss.	Savannah, Ga.
Houston, Tex.	Selma, Ala.
Huntington, W. Va.	Shreveport, La.
Jacksonville, Fla.	Spartanburg, S. C.
Jackson, Miss.	St. Louis, Mo.
Jonesboro, Ark.	Staunton, Va.
Kansas City, Mo.	Tallahassee, Fla
Knoxville, Tenn.	Talledega, Ala.
Lexington, Ky.	Tampa, Fla.
Little Rock, Ark.	Thomasville, Ga.
Los Angeles, Cal.	Washington, D. C.
	Wilmington, N. C.


Α Ε Κ Δ Β
ΚΣ
1600 1867
ΚΣ
BUONONIA DOCET
ΟΝΕΒ ΕΛΟΑΗ
ΣΟΦΙΑ
ΓΡΑΜΜΑΤΑ
ΚΑΙ
ΔΥΝΑΜΙΣ
ΚΑΡΤΕΡΙΑ
ΑΛΗΘΕΙΑ
ΔΙΚΗ
ΠΙΣΤΟΤΗΣ

KAPPA SIGMA

FOUNDED 1400

Established in America 1867

ROLL OF CHAPTERS

DISTRICT 1

Psi	University of Maine.
Alpha Rho	Bowdoin College.
Beta Kappa	New Hampshire College.
Gamma Epsilon	Dartmouth College.
Alpha Lambda	University of Vermont.
Gamma Delta	Massachusetts State College.
Gamma Eta	Harvard University.
Beta Alpha	Brown University.

DISTRICT 2

Alpha Kappa	Cornell University.
Gamma Zeta	New York University.
Gamma Iota	Syracuse University.
Pi	Swarthmore College.
Alpha Delta	Pennsylvania State College.
Alpha Epsilon	University of Pennsylvania.
Alpha Phi	Bucknell University.
Beta Iota	Lehigh University.
Beta Pi	Dickinson College.

DISTRICT 3

Alpha Alpha	University of Maryland.
Alpha Eta	George Washington University.
Zeta	University of Virginia.
Eta	Randolph Macon College.
Mu	Washington and Lee University.
Nu	William and Mary College.
Upsilon	Hampden-Sidney College.
Beta Beta	Richmond College.

DISTRICT 4

Delta	Davidson College.
Eta Prime	Trinity College.
Alpha Mu	University of North Carolina
Beta Epsilon	North Carolina A. and M. College.
Alpha Nu	Wofford College.

DISTRICT 5

Alpha Beta	Mercer University.
Alpha Tau	Georgia School of Technology
Beta Lamdba	University of Georgia.
Beta	University of Alabama.
Beta Eta	Alabama Polytechnic Institute.

DISTRICT 6

Theta	Cumberland University.
Kappa	Vanderbilt University.
Lambda	University of Tennessee.
Phi	Southwest'n Presbyterian University
Omega	University of the South.
Alpha Theta	Southwestern Baptist University.

DISTRICT 7

Alpha Sigma	Ohio State University.
Beta Phi	Case School of Applied Science
Beta Delta	Washington and Jefferson College.
Beta Nu	Kentucky State College.

DISTRICT 8

Alpha Zeta	University of Michigan
Chi	Purdue University.
Alpha Pi	Wabash College.
Beta Theta	University of Indiana.
Alpha Gamma	University of Illinois.
Alpha Chi	Lake Forest University.
Gamma Beta	University of Chicago.
Beta Epsilon	University of Wisconsin.

DISTRICT 9

Beta Mu	University of Minnesota
Beta Rho	University of Iowa.
Alpha Psi	University of Nebraska.

DISTRICT 10

Alpha Omega	William Jewell College.
Beta Gamma	Missouri State University.
Beta Sigma	Washington University.
Beta Chi	Missouri School of Mines.
Beta Tau	Baker University.
Xi	University of Arkansas.
Gamma Kappa	University of Oklahoma.

DISTRICT 11

Alpha Upsilon	Millsaps College.
Gamma	Louisiana State University.
Sigma	Tulane University.
Iota	Southwestern University.
Tau	University of Texas.

DISTRICT 12

Beta Omicron	University of Denver.
Beta Omega	Colorado College.
Gamma Gamma	Colorado School of Mines.

DISTRICT 13

Beta Zeta	Leland Stanford, Jr., University.
Beta Xi	University of California.

DISTRICT 14

Beta Psi	University of Washington.
Gamma Alpha	University of Oregon.
Gamma Theta	University of Idaho.

KAPPA SIGMA

ALUMNI CHAPTERS

Boston,
Buffalo,
Ithaca,
New York,
Danville,
Lynchburg,
Norfolk,
Little Rock,
Pine Bluff,
St. Louis,
Jackson, Miss.,
New Orleans,
Runston,
Portland,
Birmingham,
Mobile,
Chattanooga,
Covington,
Jackson, Tenn.,
Memphis,
Nashville.
Richmond,
Washington,
Concord,
Durham,
Kinston,
Atlanta,
San Francisco,
Vicksburg,
Waco,
Yazoo City,
Denver,
Salt Lake City,
Los Angeles,
Louisville,
Pittsburg,
Chicago,
Milwaukee,
Indianapolis,
Fort Smith,
Kansas City,

KAPPA SIGMA FRATERNITY

'08

George Fred Kellog.

Clyde Rex Wood.

Otto Ernest Klockman.

'09

Benjamin Harrison Dosenbach.

Oscar Miles Cornelius Whitener.

William Hamilton Jones.

Frank Nachtman.

'10

Earl Frank Insley.

Lindell Chew.

John Charles Clark.

Harry William Lee Porth.

Milton Flynn.

'11

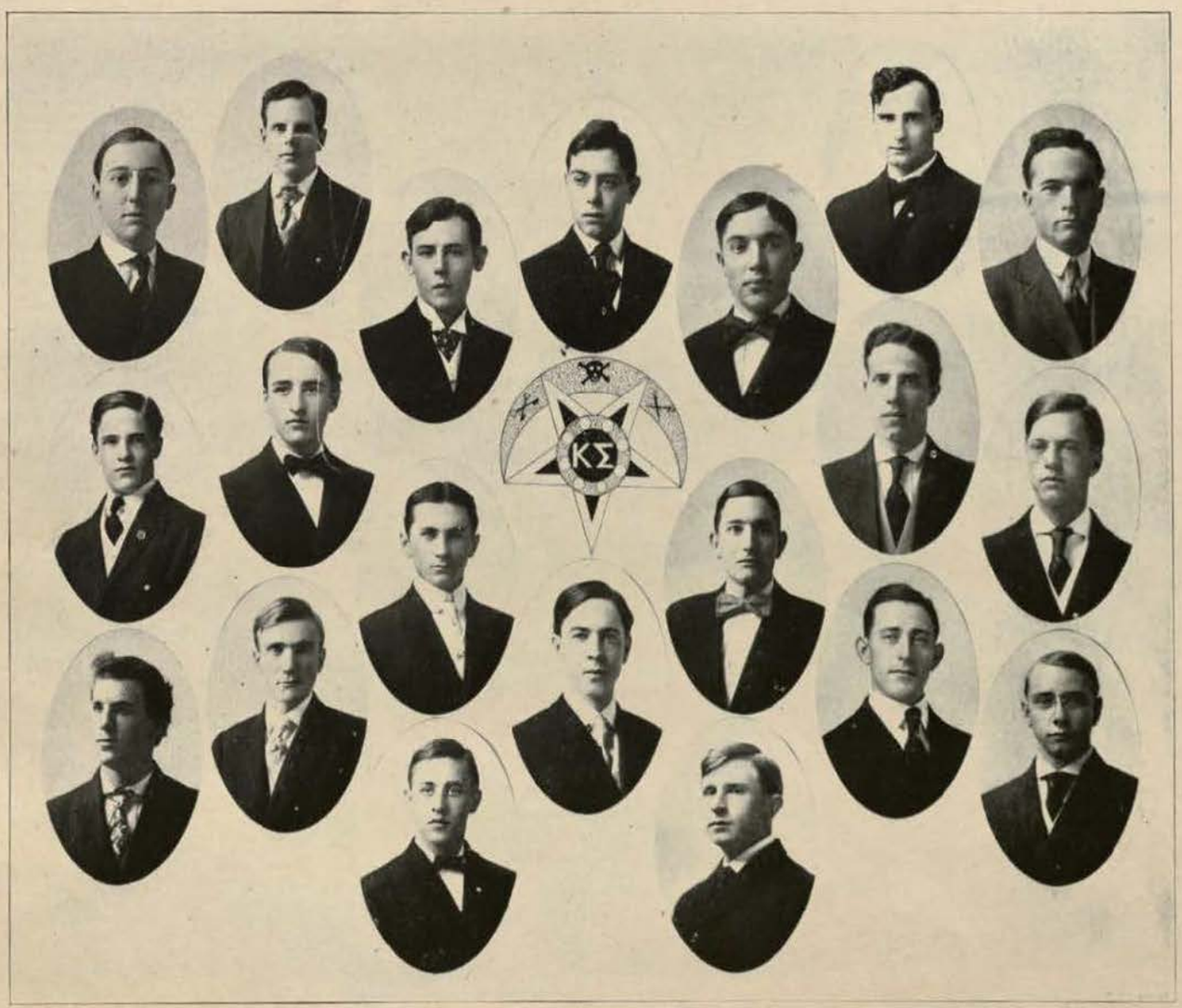
James Edward McGoughran.

Harry H. Martin, Jr.

Conway Guild Williams.

Stanley Louis Nason.

David Lawton Forrester.



KLOCKMAN McGOUGHRAN INSLEY KELLOGG WHITENER CHEW FLYNN
ELTON PORTH WOOD J. C. CLARK JONES DOSENBACH
MARTIN WILLIAMS GOSROW V. H. HUGHES E. L. CLARKE F. W. HUGHES RICHARDS



KAPPA SIGMA HOUSE


ΠΚΑ

Pi Kappa Alpha Fraternity

FOUNDED MARCH 1st, 1868

ALPHA KAPPA INSTALLED DECEMBER 2d, 1905

Official Organ—
Shield and Diamond

Official Flowers—
Tulip and Lily-of-the-Valley

Colors—
Garnet and Gold

Secret Publication—
Dagger and Key

Alpha Kappa of Pi Kappa Alpha

B. N. Lay, '10	T. S. Dunn, '09	C. F. Flood, '08	R. L. Drake, '09
F. G. Beckner, '09	W. F. Siegmund, '11	A. J. Seltzer, '07	W. A. McTighe, '07
K. R. Morgan, '08	E. P. Murray, '08	H. T. Mann, '08	A. Pudewa, '11
I. L. Wright, '07	H. E. Minor, '10	H. S. Owen, '10	D. H. Radcliffe, '11
R. T. Kendrick, '09	J. K. Beach, '11	H. C. Kibe, '09	C. T. Heydecker, '11
H. E. Smith, '10	W. D. Peeso, '09	J. M. Goldman, '10	J. G. Vogt, '10

O. A. Randolph, '11

ATHLETICS

Pi Kappa Alpha Chapter Roll

Alpha	University of Virginia.
Beta	Davidson College.
Gamma	William and Mary College.
Delta	Southern University.
Zeta	University of Tennessee.
Eta	Tulane University.
Theta	Southwestern Presbyterian University.
Iota	Hampden-Sidney College.
Kappa	Kentucky University.
Mu	Presbyterian College.
Omicorn	Richmond College.
Pi	Washington and Lee University.
Rho	Cumberland University.
Tau	University of North Carolina.
Upsilon	Alabama Polytechnic Institute.
Phi	Roanoke College.
Chi	University of the South.
Psi	Georgia Agricultural and Mechanical [College.
Omega	Kentucky State College.
Alpha Alpha	Trinity College.
Alpha Gamma	Louisiana State University.
Alpha Delta	Georgia School of Technology.
Alpha Epsilon	North Carolina A. & M. College.
Alpha Zeta	University of Arkansas.
Alpha Eta	Florida State University.
Alpha Theta	West Virginia University.
Alpha Iota	Millsaps College.
Alpha Kappa	Missouri School of Mines.
Alpha Lambda	Georgetown College.

ALUMNI CHAPTERS

Richmond, Va.
Memphis, Tenn.
White Sulphur Springs, W. Va
Charleston, S. C.
Dillon, S. C.
New Orleans, La.
Dallas, Tex.
Knoxville, Tenn.
Charlottesville, Va.
Ophelita, Ala.
Fort Smith, Ark.
Birmingham, Ala.
Lynchburg, Va.



WE came into this world naked and bare;
We go through this world full of trouble and care;
We go out of this world to God only knows where,
We'll be good fellows here—we'll be thoroughbreds there.

THETA NU EPSILON

A. EMORY WISHON.

FELIX ANTHONY LYNEMAN.

ALFRED LEO NYE.

CLAY GREGORY, Jr.

ARTHUR LEWIS POLLARD.

PERCY C. SHOCKLEY.

TAU BETA PI

Honorary Engineering Fraternity

"To mark in a fitting manner those who have conferred honor upon their Alma Mater by a high grade of scholarship as undergraduates, or by their attainments as alumni; and to foster a spirit of liberal culture in the Technical and Scientific Schools of America."

Founded at Lehigh University, 1885

ROLL OF CHAPTERS

Alpha of Pennsylvania	Lehigh University.
Alpha of Michigan	Michigan Agricultural College.
Alpha of Indiana	Purdue University.
Alpha of Illinois	University of Illinois.
Alpha of New Jersey	Stevens Institute of Technology.
Alpha of Wisconsin	University of Wisconsin.
Alpha of Ohio	Case School of Applied Science.
Alpha of Kentucky	State College of Kentucky.
Alpha of New York	Columbia University.
Alpha of Missouri	University of Missouri.
Beta of Michigan	Michigan College of Mines.
Alpha of Colorado	Colorado School of Mines.
Beta of Colorado	University of Colorado.
Beta of Illinois	Armour Institute of Technology.
Beta of New York	Syracuse University.
Gamma of Michigan	University of Michigan.
Beta of Missouri	Missouri School of Mines.
Alpha of California	University of California.
Alpha of Iowa	Iowa State College.

TAU BETA PI

Missouri Beta Chapter

Established December 21st, 1906.

CHAPTER ROLL

Fratres in Facultate

AUSTIN LEE McRAE.
LEON ELLIS GARRETT.
GEORGE REGINALD DEAN.
LEON STACY GRISWOLD.
VICTOR HUGO GOTTSCHALK.

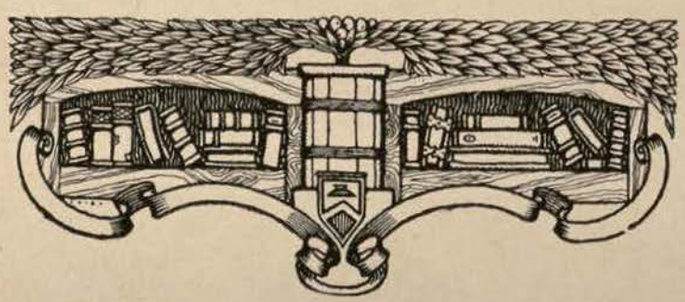
Fratres in Universitate

Charter Member

HORACE THARP MANN, '08.

Initiates 1907

GEORGE SYLVESTER ANDERSON, '08.
ARTHUR LEWIS POLLARD, '09.
WARD BARR MIX, '08.
DIBRELL PRYOR HYNES, '08.
EDWIN PHELPS MURRAY, '08.
HORACE ASAHEL JOHNSON, '08.
JOHN HYER BOWLES, '08.





JOHNSON. BOWLES. MANN. MIX.

PROF. GOTTSCHALK. ANDERSON MURRAY.

POLLARD. HYNES.

Young Men's Christian Ass'n

During the Fall of 1904, the Y. M. C. A. was first organized at the Missouri School of Mines. Its membership and accommodations at that time were quite limited. Now the Association has two pleasant rooms upon the Campus and its membership has grown to over forty. The rooms are always open, affording a quiet retreat for those who care to use the library or enjoy a social chat.

Friday evening is devoted to interesting talks by members of the Faculty, as well as to religious topics. The regular meetings close at eight o'clock and the rest of the evening is spent in games, boxing, wrestling and a social good time.

The object of the Association is to develop and strengthen both the spiritual and social side of student life. It is not merely the guidance of the Christian forces of the College for one year that we strive, but to insure the higher training of a body of Christian men for many years of more efficient service after they leave College.

There is ever present a feeling of "Peace on Earth, Good Will Toward Men" among the Association members and we hope next year to double the membership as well as the accommodations of the present year.

OFFICERS

C. A. PIERCE, President
M. A. SEDIVY, Vice-President
A. PARKS, Secretary.
D. W. BLAYLOCK, Treasurer.

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E. L. TOMLINSON.
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R. C. FRAZER.
ELMER LIST.
W. E. HARRISON.
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M. H. DETWEILER.
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VICTORIANO ELICANO.
R. H. TOWNSEND.
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ANTON KARTE.
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J. D. FOWLER.
R. A. BINGHAM.
F. W. HARPER.
G. R. SMITH.
R. R. BENEDICT
E. E. COOK.
R. C. HAM.
P. A. PHILLIPI.
H. A. SMITH.
D. F. DON.
W. C. DOBBINS.
E. P. BARRETT.
P. S. JUDY.
J. D. HARLAN.
H. C. HASE.

EATING CLUBS

"His drink it is Saline Pyretic.
He longs, but he shall not eat.
His Soul is convulsed with emetic.
His stomach is empty of meat."

Kipling's—The Song of the Sufferer.

GRUB STAKER'S CLUB

JONES, W. H., President.

B. W. HUMPHREY, Secy. C. A. PIERCE, Treas.

BARRETT, E. P.
F. H. BOYER.
A. L. NYE.
C. L. FRENCH.
M. S. MAZANY.
W. N. CLARK.
MILES SEDIVY.
W. G. STAHL
R. P. BENEDICT.
O. E. KLOCKMAN.
F. W. HARPER.
JAMES BUNTEN.
D. W. BLAYLOCK.
F. E. REIDE.
R. C. HAM.
C. T. JOBES
W. J. BAUMGARDNER.
LINDELL CHEW.
P. S. JUDY.
D. M. NEER.
D. F. DON.
O. A. LUNAK.
F. R. LOVERIDGE





BENEDICT. BARRETT. LOVERIDGE. BOYER. JOBES. MAZANY.
JUDY. STAHL. BLAYLOCK. CHEW. BAUMGARDNER. FRENCH.
SEDIVY. LUNAK. PIERCE. REIDE. KLOCKMAN. CLARK.
NYE. BUNTEN. JONES. HARPER. HUMPHREY.

LUCKY STRIKE CLUB

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J. K. FORMAN, Secretary. A. M. DETWEILER, Treasurer.

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ARTHUR C. COON.
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ELMER LIST.
ERNEST ALLEN.
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F. E. WEEMS.
KEITH C. FRASER.
ROB'T B. MITCHELL.
JOHN S. STEWART, Jr.
DUNCAN SMITH.
EDW. R. ABBOTT.



DOBBINS. WEEMS. SMITH. PHILLIPS. CODY.
FRAZER. ALLEN. FORMAN. STEWART. M. DETWEILER. COON.
POLLARD. A. DETWEILER. MITCHELL. TRAUGHBER. ABBOTT.
RANDOLPH. LIST. ELMER LIST. MILLER.

THE R-WAY CLUB

R. S. ALLEN, President.

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C. L. TAYLOR.
HOWARD H. JONES.
A. R. BRADT.
F. E. TOWNSEND.
E. W. ENGLEMANN.
H. W. CONNELLY.

FRANK NACHTMAN.
W. H. SEAMON, Jr.
CHAS. A. BURDICK.
H. P. FORD.
A. G. BAKER.

INTERNATIONAL CLUB



First row kneeling, beginning at left: ESPRIU, MEXICO; VALENCIA, MEXICO; BOZA, PERU; GARZA, MEXICO; GARCIA, MEXICO.

Second row: GARZA, MEXICO; GARCIA, MEXICO; DIAZ, CHILI; SWENSON, MEXICO; TALWAR, INDIA; ELICANO, P. I.; DIAZ, CHILI; MAPES, MEXICO; CAVAZOS, MEXICO.

Third row: JONES, MEXICO; SEAMON, MEXICO; PALOMARES, MEXICO; SHAH, RUSSIA; RAJ, INDIA.

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ARTHUR L. POLLARD	Editor-in-Chief
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DeFOREST DON	Treasurer and Junior Editor.
WILLIAM A. BAUERIS	Faculty Editor.
HARVEY S. OWEN	Athletic Editor.
EDWIN B. THORNHILL	Senior Editor.
HARRY L. PORTH	Sophomore and Social Editor.


W.S. Hall
H S Owen
A.L. Pollard
H.W Porth
E.B. Thornhill
D.F. Don
W.A. Baveris

EDITORIAL

We submit this book to the students and alumni of M. S. M. with profuse apologies for its lack of those qualities which go to make a tactful and brilliant literary production, but with the firm realization that we have done our best.

We sincerely trust that we will offend no one in emulating the spirit of raillery which characterizes the older college publications.

Last year's board ably demonstrated the possibilities of success for an annual publication in an institution of highly specialized technical training.

We believe that every student wishes to see M. S. M. among the best of her class and we think that a year book is one of the best mediums for bringing before prospective mining students the special advantages of our college.

In passing on our task to the Board of 1909 we hope for the furtherance of this work as a benefit to the Missouri School of Mines.

ACKNOWLEDGMENT

We extend hearty thanks to Director L. E. Young, who, by his interest in our work, has immeasurably contributed to any success which we may obtain.

Dr. A. L. McRae, through his extensive acquaintance with the former students of the school, has rendered us great aid in compiling the alumni notes and in bringing members of the alumni to our notice.

The cover design as well as many of the drawings in this book was done by Mr. R. H. B. Butler. Mr. Dunn and Mr. Langsdale also contributed several drawings.

The following acknowledgments are for articles in this book:

Professor L. E. Young	Opportunities in the Mining Profession.
Dr. A. L. McRae	Alumni Notes.
H. G. Anderson	Junior Mining Trip.
B. F. Langsdale	Junior Class History.
H. E. Smith	Sophomore History.

The roasts are anonymous.

ALUMNI NOTES

By Dr. A. L. McRae.

Mr. Charles Hoyle, 1899-1902, is now General Manager of the Esperenza Mining Company, El Oro, Mexico, the greatest dividend payer of all the gold mines of the entire world. Up to and including 1906, this mine has paid $10,000,000 gold in profits and the output in 1906 amounted to $15,813,090, Mexican currency or a million and a quarter dollars a month.

On leaving school Mr. Hoyle obtained employment in assaying and surveying in Central City, Colo., and later became ore sampler for the Stratton mines at Cripple Creek.

In December, 1902, he went to Mexico where he had a varied experience as assayer, chemist, surveyor and mine examiner in Durango, Chihuahua, Zacatecas and Hidalgo, Mexico; Des Loge and Flat River, Mo., Newfoundland and the Cobalt district in Canada.

In September, 1905, he served as assistant to Mr. J. E. Spurr, Chief Geologist for the Guggenheims. In February, 1906, he was made Assistant General Manager of the Esperenza Mining Company at El Oro and has recently been appointed General Manager of the same company.

Mr. W. Rowland Cox has paid special attention to the mechanical and electrical side of mining and has been consulting engineer for many of the most prominent mining concerns in Colorado and Mexico. He has served as General Manager of the Silver Lake Mines, Silverton, Colo. As General Superintendent of the Mining Department of all the Mexican Properties of the Guggenheims. Consulting Engineer for the Inde Gold Mining Company at Inde, Durango, Mexico.

At present Mr. Cox is a member of the firm of Spurr and Cox (incorporated), Consulting Engineers and Mining Geologists with offices in New York, Denver and Mexico City.

Mr. J. C. Reid, E. M., 1893. Mr. Reid is at present General Manager of the Great Western Coal and Coke Company at South McAlester, Okla., one of the largest corporations of its kind in the West.

Mr. Wm. R. Painter, C. E., 1882. Editor and Proprietor of the Carrollton, Mo., Daily Democrat.

After leaving school he became U. S. Deputy Mineral Surveyor in Colorado. Then Civil Engineer on the Missouri Pacific Railway, then County Surveyor of Carroll County, Mo., after which he has devoted himself to newspaper work, of which he has made a success.

He has served as President of the Missouri Press Association.

He is an all-'round good fellow and an active and substantial citizen.

Mr. Charles H. Richards, entered in E. M. course in 1900, is at present Division Engineer on the Los Angeles Water Works Aqueduct, which involves the second longest tunnel in America.

Mr. Arthur C. Carson is general Manager of the North Butte Mining Co., the richest mine in the Montana Copper country.

Mr. D. Creveling is now Superintendent of the Compania Minera Del Tiro General, S. A. During the year 1899 he was engaged in buying ore for the smelters at San Louis Potosi and doing a general custom assay business. He continued in the assay business at various places until 1904, when he took charge of the Fortuna Mine at Tepezala, Ags., and remained there until January, 1905.

Since January, 1905, he has been with the above company at Charcas, S. L. P.

Directory of Old Students

(EDITORS' NOTE)

The Editors of this book wish to express their appreciation of the efforts of Director L. E. Young and of the '07 Board in making this Directory as complete as possible.

There are, doubtless, numerous omissions and some errors but we hope in future years by the aid of the Alumni, to have a complete record of every one who has attended the School of Mines.

We request that any of the Alumni who may see this Directory will send us the name and address of any person omitted.

ABBOTT, W. I.	Bowling Green, Mo.
ALEXANDER, CURTIS, E. M. & C. E., 1884	San Louis Potosi, Mexico. Box 132.
ALEXANDER, G. E.	1136 Champa St., Denver, Colo.
ALEXANDER, R. C., B. S., 1903, E. M., 1906	Humbolt, Ariz.
ALEXANDER, T., C. E. 1901	Chaffee, Mo.
ALLEE, D. P.	Kirkwood, Mo.
AMBLER, J. O., B. S. 1906	Cananea Club, Cananea, Mexico.
ANDERSON, P. B., B. S. 1897	Fort Madison, Iowa.
ANDREWS, S. W., Jr.	Arcadia, Mo.
ARTHUR, C. L.	Lakespring, Mo.
BAKER, A. G., B. S. 1907	Great Falls, Mont.
BAKER, GEO. C.	Paris, Tex.
BAKER, MORRIS	Philadelphia, Pa.
BALL, R. H.	Gardner, Kas.
BANTLEY, C. H.	Lebanon, Mo.
BARBER, F. S.	Kansas City, Mo.
BARBER, E. L.	Kansas City, Mo.
BARKER, RALPH, B. S. 1898	Elizabethtown, New Mexico.
BARNARD, D. C.	Apartado, 25, Guanjuato, Mexico.
BARRERE, C. F.	Webster Groves, Mo.
BARTLETT, A. B., B. S. 1907	Cheyenne, Wyo.
BARTON, R. A., B. S. 1906	Care Maderia Mamore R. R. Co., Santo Antonio, Rio Maderia, Amazones, Brazil.
BATES, WORTH	Lexington, Mo.
BEALL, SARAH	Care Maud B. Mitchell, Pension Office, Washington, D. C.
BEAN, W. Y., C. E. 1878	R. W. Morrison Construction Co., St. Louis, Mo.
BEDDOE, B. E.	Fresno, Cal.
BEDFORD, R. H., B. S. in M. E. 1906	Bisbee, Ariz.
BEITZEL, A. H.	Penn National Bank, Philadelphia, Pa.
BEITZEL, H. C.	Penn National Bank, Philadelphia, Pa.
BELL, F. R., B. S. in M. E. 1903	Bartlesville, Okla.
BELL, W. K.	Lawrence, Mo.
BERTRAND, L. A.	Boquillas, Mex.
BEYER, F. B.	Aspen, Colo.
BAKER, C. C.	Lead & Zinc News, Joplin, Mo.
BISSETT, A. L.	14 Waldron St., West Lafayette, Ind.
BLATCHLEY, W. H.	Fort Scott, Kas.
BLACK, J. K., B. S. in M. E. 1904	Clayton, Mo.
BLACKMAN, F. H.	St. Louis, Mo.
BLAKE, F. C.	Denver, Colo.
BLAIR, H.	Kirksville, Mo.
BLANCHARD, ALICE C.	1235 Appleton St., Long Beach, Cal.
BLANCHARD, ELIPHALET	Hartsville, Tenn.
BLAND, G. V., B. S. in M. E. 1904	Ketchikan, Alaska.
BLAND, H. O.	Afton, Okla.
BLAND, J. R.	St. Louis, Mo.
BLANEY, B. D.	St. Louis, Mo.
BLOW, P. E.	Southern Brass & Iron Co., Knoxville, Tenn.

DIRECTORY—Continued

BOLAND, E. F.	Syracuse, N. Y.
BLOW, C. W.	Care Collier White Lead Co., St. Louis, Mo.
BOLES, THOS. Jr.	Fort Smith, Ark.
BOLLES, F. C.	U. S. A., Washington, D. C.
BONE, A. J.	Kansas City, Mo.
BOOSE, F. A.	Lincoln, Neb.
BOWIE, A. R.	Gallup, New Mexico.
BOWMAN, S. R.	St. James, Mo.
BOWMAN, W. W.	Care W. P. Bowman, Spivey, Kas.
BOYES, M. A.	Rolla, Mo.
BRAWFORD, J. E.	Unionville, Mo.
BRECKINRIDGE, GEO. C.	Huntsville, Mo.
BROOKS, J. M., B. S. in M. E. 1906	Fundicion, Sonora, Mexico. Asst. Supt. Campania Metalurgica y Refindora Pacific.
BROAN, A. G.	St. Joseph, Mo.
BROWN, J. J. Jr., B. S. in M. E. 1905	Cuba City, Wis.
BROWN, H. L.	Lake Spring, Mo.
BROWN, JAS. A.	Noblesville, Ind.
BROWN, JAS. K.	Fort Smith, Ark.
BROWN, W. R., E. M. in 1878	Shakespeare, New Mexico.
BRUNER, R. M.	Kansas City, Mo.
BRYAN, GUY	Asst. Chem. Fairbanks Soap Co., 3d and Convent Sts., St. Louis, Mo.
BRYANT, A. D.	Washington, D. C.
BUCKBY, D. W., B. S. in M. E. 1901	Butte, Mont.
BUEHLER, H. A.	Flat River, Mo.
BURGHER, C.	Rolla, Mo.
BURGHER, M. B., B. S. in M. E. 1906	Hannibal, Mo.
BURHAUS, J. W.	Stoutland, Mo.
BUSKETT, E.W., B.S. in M.E. 1895, Met. E. 1897	Du Pue, Ill.
BUTCHER, J. C.	San Francisco, Cal., % L. H. Butcher Co., 1st St. between Missouri and Howard Sts.
CALE, D. C.	3047 Taylor Ave., St. Louis, Mo.
CAMERON, J. S., B. S. in M. E. 1897	Lehigh, Okla.
CAMPBELL, EUGENE	Rolla, Mo.
CAMPBELL, J. G.	Rolla, Mo.
CAMPION, T. F.	Greenleaf, Kas.
CANWELL, ARTHUR	Mexico, Mo.
CANSLER, G. E.	Crocker, Mo.
CAPLES, S. W., B. S. in M. E. 1905	Salmon, Idaho.
CARNAHAN, T. S., B. S. 1904	Ogden, Utah.
CARPENTER, GERTRUDE	Rolla, Mo.
CARPENTER, M. E.	Rolla, Mo.
CARPENTER, R. R.	St. James, Mo.
CARPENTER, R. W.	Rolla, Mo.
CARR, W. J. E.	Leavenworth, Kas.
CARSON, A. C., B. S. 1880	Butte, Mont.
CARTER, E. E.	Lowell, Mass.
CARY, CARL F.	Balivere, Mo.
CAUFMAN, H. E.	Lebanon, Mo.
CHAMBERLAIN, H. C., B. S. in M. E. 1906	Cornelia Copper Co., Gila Bend, Ark.
CHAMBERLAIN, SANTIAGO, B. S. 1900	Conception del Oro, Zacatecas, Mexico
CHAMBERLAIN, S. Q.	Rolla, Mo.
CHASE, JAS. H.	Logansport, Ind., 829 North St.
CHENEY, H. O.	Mt. Vernon, Iowa.
CHRISTI, L. J.	Anaconda, Mont.
CHRISTOPHER, J. K., B. S. in M. E. 1905	317 Board of Trade Bldg., Kansas City, Mo.
CHURCH, EDWARD	Evanston, Ill.
CLARK, GEO. C., B. S. 1899	Tucson, Ariz.
CLARK, H. H.	Glucose Sugar Refining Co., Pekin, Ill.
CLARK, O. H.	Cleveland, Ohio.
CLARY, J. H., B. S. in M. E. 1905	Wilcox, Ariz.
CLAYPOOL, W. M., C. E., E. M. 1884	Globe, Ariz., Pur. Agt. Globe S. & R. Co.
CLEINO, HENRY	Rolla, Mo.
CLUNE, D. E.	Green Bay, Wis.
COLEMAN, C. D.	Logansport, Ind.
COFFMAN, E. H.	Rolla, Mo.

DIRECTORY—Continued

COFFMAN, W. S.	Paris, Mo.
COLE, GEO. W., C. E. 1887	Deceased.
COLE, H. M.	Deceased.
COLER, L. A.	Leesburg, Ohio.
COLWELL, W. H.	Port Tampa City, Fla.
CONNELLY, W. A.	Jerome, Ariz.
COOK, E. E., B. S., C. E. 1907	Joplin, Mo. Frisco.
COOK, P. R., B. S. in C. E. 1907	Elko, Nev.
COPE, R. P.	
COUCH, M. C.	Fredonia, N. Y.
COWAN, D. E.	Rolla, Mo.
COWEN, H. C., B. S. in C. E. 1895; C. E. 1898	Cementon, N. Y., Green Co.
COWLES, F. R., B. S. in M. E. 1901	
COWPERTHWAITE, THOS., B. S. in M. E. 1905	Bisbee, Ariz,. care C. & A.
COX, J. C.	1732 Champa St., Denver, Colo.
COX, W. R.	Mining Engineer, Mexico, D. F., Mexico.
CULLINGS, JAY, C. E. 1886	Asst. Bridge Eng. A. T. & S. F., D. & R. G. R. R., Rueble, Colo.
CRANDALL, A. L.	Merchants-Laclede National Bank, St. Louis
CREVELING, De WITT	Care J. E. Creveling, Clayton, Mo.
CUMMINS, R. P., B. S. in M. E. 1905	3865 Page Ave., St. Louis, Mo.
D'ARCY, A. I., B. S. in M. E	Mina, Nevada.
D'ARCY, RICHARD L.	Denver, Colo.
DALTON, G. C.	Lenox, Mo.
DAVES, L. C.	Central P. O., St. Louis, Co., Mo.
DAVIES, CHAS. R.	Cripple Creek, Colo.
DAVIS, FLOYD, C. E., E. M. 1883, Ph. D.	State Chemist, Des Moines, Iowa.
DEACON, A. R.	St. Louis, Mo.
DEAN, G. R., C. E. 1890, B. S. 1901	Rolla, Mo.
DEAN, G. W., B. S. in M. E. 1897, E. M. 1900	
DeDENATO, FLORIAN	Hair Dresser, St. Louis, Mo.
DEHNER, A. G.	St. Louis, Mo.
DELANO, L. A., B. S. in M. E. 1904	DesLoge, Mo.
DeLAY, T. S., B. S. 1894, E. M. 1901	Curay, Colo., Camp Bird Co.
DE WATERS, R. H.	Iola, Kas.
DIFFENDERFFER, J. L.	Lebanon, Mo.
DONAHOE, DANIEL F.	Rolla, Mo.
DONAHOE, W. P.	Rolla, Mo.
DONNAN, A. T.	Iola, Kas.
DOSTER, WADE	Marion, Kas.
DRAPER, JAS. C., B. S. in M. E. 1901, E. M. 1903	116 S. Front St., Memphis.
DRAPER, JOSEPH W.	Lebanon, Mo.
DRAPER, L. L.	Kirksville, Mo.
DRENNAN, R. W. W.	Assayer, Monterey, Mexico.
DU BOIS, C. R.	Macon, Mo.
DULIN, R. S.	Anaconda, Mont.
DUNCAN, G. A., C. E. 1874	Mine Expert, Boston, Mass.
DUNKIN, D. D.	R. F. D. No. 5, Neosho, Mo.
DUNN, T. S.	801 N. County, Waukegan, Ill.
DWYER, E. P., B. S. in M. E. 1895	Granbym, Mo.
DYCUS, H. K.	Fort Worth, Tex.
EARDLEY, A. E., B. S. in M. E. 1897	Carriso Springs, Texas.
ELLIOTT, G. N.	Clay Center, Kas.
ELLIS, CHAS. W.	Denver, Colo.
ELMORE, C. E.	Lima, Peru.
ELTON, T. B.	Webster Groves, Mo.
EMERSON, C. G., C. E. 1876	Pittsburg, Kas.
EMMONS, ST. CLAIRE P.	Mexico, Mo.
ERICSON, J. T. E., B. S. C. & M. 1907	Chemist, Pittsburg, Pa.
ESTES, W. D.	Hamilton, N. Y.
ETCHEN, J. P.	Coffeyville, Kas.
EVANS, D. C.	Hiawatha, Kas.
FACH, C. A., B. S. C. E. 1900, B. S. in M. E. 1901	St. Louis, Mo.
FAULKNER, F. G.	Rolla, Mo.
FAULKNER, J. P.	Checota, Okla.
FAULKNER, M. F.	Rolla, Mo.
FAULKNER, R. T.	Checota, Okla.

DIRECTORY—Continued

FAY, A. H., B. S. 1902, E. M. 1905 Mining Engineer, Bristol, Tenn.
FELLOWS, A. P., B. S. in M. E. 1907 Joplin, Mo.
FERNANDEZ, A. L., B. S. in M. E. 1900, E. M. 1902 Asst. Eng. Mexican Lead Co., Guancieve, Mex.
FILKIN, J. P. 1220 Penn St., Kansas City, Kas.
FINAGIN, JOS. C. East Puebla, Iaxaca, Mexico, Apart. 100.
FINN, ALBERT N. Sedgewick, Kas.
FOLLOWILL, DEXTER B. Rolla, Mo.
FORD, H. P. 2023 S. 20th St., St. Joseph, Mo.
FORD, VIVIA Golightly, S. C.
FORDYCE, D. A. Wichita, Kas.
FORT, EDWARD LONG Montrose, Colo.
FOSTER, L. J., B. S. in M. E. 1904 Montrose, Colo.
FRAZIER, ISAAC PETER, B. S. 1900, B. S. C. E. 1901, C. E. 1903 Rolla, Mo.
FOSTER, R. F. Seymour, Mo.
FOWLER, WM. Jefferson City, Mo.
FRAZIER, MARGARET B. Rolla, Mo.
FREIN, W. J.
FULCHER, J. E., C. E. 1886 1548 Wilmot St., Ann Arbor, Mich.
GAGE, F. W. Superior, Wis.
GALLAHER, P. C., E. M. 1884 Leadville, Colo., Iron Silver Mining Co.
GARCIA, JOHN A., B. S. in M. E. 1900, E. M. 1903 Dering Coal Co., Old Colony Bldg., Chicago, Ill.
GARDNER, W. A., B. S. in M. E. Fullerton, Cal.
GARRETT, L. E., B. S. in G. S. Rolla, Mo.
GARST, H. O. Cabool, Mo.
GARVENS, WM. East St. Louis, Ill.
GERMANN, FRANK A. Rolla, Mo.
GIBB, F. W., E. M. C. E., 1882 Little Rock, Ark., Gibb & Sanders, Architects
GIBBONS, F. J. Kirksville, Mo.
GILBREATH, G. C. Love Lake, Mo.
GILL, E. H., B. S. in M. E. 1903 Bartlesville, Ind.
GODWIN, MILLARD Cuba, Mo.
GOODWIN, TIMOTHY Denver, Colo.
GORMLEY, S. J., B. S. 1895 Anaconda, Mont.
GOTTSCHALK, V. H. B. S. 1898, M. S. 1900 Rolla, Mo.
GRABELL, L. R., E. M. 1878 Asst. Eng., War Dept., Washington, D. C.
GRATIOT, L. P. Shaullsburg, Wis.
GRAUTHAM, O. A. Pattonsburg, Mo.
GRAVES, JOHN, Jr. Kansas City, Mo.
GRAY, HOWARD Wausem, Ohio.
GRAY, HENRY L. R. R. Com. of Wash., Olympia, Wash.
GREEN, A. P. 920 Market St., St. Louis, Mo.
GREEN, C. T., B. S. in M. E. 1906 Gen. Mgr. Marblehead Mining Co., Hadley, Ala.
GREEN, WILLIS A. Craig, Colo.
GREENIDGE, S. M., B. S. 1902 Cananea Cons. Copper Co., Cananea, Mexico.
GREGORY, J. A., B. S. in M. E. 1905 Rolla, Mo.
GRETHER, W. S., B. S. in M. E. 1906 Crystal City, Mo.
GRIFFITH, W. T., B. S. in M. E. 1906, ... Salt Lake City, Utah. Bell Telephone.
GRINE, H. A., B. S. in Chem. & Met. 1904
GROEBE, J. FRED Kansas City, Mo.
GROVE, C. D., B. S. in M. E. 1894, E. M. 1896 Colo. Springs, Colo., Colo. Phil. Reduction Wks.
GROVE, R. J. Martinsville, Ind.
GROVES, V. P. Springfield, Mo.
GUILD, F. D. Carthage, Mo.
GUILD, W. C. Marionville, Mo.
GUNTLEY, E. A., B. S. in M. E. 1906 Box 2, Victor, Colo.
GUPPY, ERIK L. Port of Spain, Trinidad.
HACKNEY, C. W. Carthage, Mo.
HAHN, E. L. Muscatine, Iowa.
HALL, P. E. Rolla, Mo.
HAMMAN, J. S. Denver, Colo.
HAND, H. A., B. S. in M. E. 1907 % Pa. R. R. Eng., Front St., Long Island, [N. Y.
HANICK, M. J. 4300 Laclede Ave., St. Louis, Mo.
HANLEY, H. R., B. S. 1901 in M. E. Assayer De La Mar Mines, Winthrop, Cal.
HANLEY, J. A., Jr. Clayton, Mo.
HANNAH, H. D. Cananea, Sonora, Mexico.

DIRECTORY—Continued

HARPER, F. W.	Dallas, Tex.
HARRIS, D. D.	Rolla, Mo.
HARRIS, GEO., B. S. in C. & M. 1904	Mexico City, Mexico, % National Metal Co., 2a Cinco de Mayo.
HARRIS, W. B.	
HARRISON, B. H.	Rolla, Mo.
HARTZELL, H. H., B. S. in M. E. 1906	Cape Girardeau, Mo.
HASKELL, W. H. M.	Cuba, Mo.
HATCH, W. P., B. S. in M. E.	Cripple Creek, Colo.
HATCHETT, R. H., B. S. in C. & M. 1899	La Aurora, Teziutlan, Puebla, Mexico.
HAUNENSTEIN, F., B. S. 1903 in M. E.	Loc. Eng. Las Vegas Tonapah R.R., Beatty, Nev.
HAZARD, F. H.	Hull, Iowa.
HAZEN, CLYDE	New Castle, Pa.
HEARELL, OLIVER	Neosho, Mo.
HECK, E. C., B. S. in M. E. 1905	Mine Supt., Aguas Calienties, Mexico.
HELLER, ROBT.	Rolla, Mo.
HENDRICKS, J. O., B. S. in C. E. 1899	La Cruces, New Mexico.
HENDRICKS, W.	Joplin, Mo.
HERBRUCK, KARL	Canton, Ohio.
HERBRUCK, WENDELL	Canton, Ohio.
HERDMAN, G. W., C. E. 1894	C. E. Union Pacific R. R., Omaha, Neb.
HERNDON, R. C.	Lebanon.
HOFFMAN, R. E., B. S. in M. E. 1905	Portland Atlas Cement Co., Hannibal, Mo.
HOLN, W. M.	Terminal Hotel, Cape Girardeau, Mo.
HOLLOW, G. A.	Cuba, Mo.
HOLLOW, H. O.	Cuba, Mo.
HOOVER, L. A.	Rolla, Mo.
HORNER, P. K., B. S. in M. E. 1906	Mine Engineer, McGill, Nev.
HOYER, R. C., C. E. 1879	U. S. Engineer Office, Vicksburg, Miss.
HOYLE, CHAS., Jr.	Asst. Mgr. Esperanzo Mining Co., El Oro, Mexico.
HUGHES, R. K.	Real Estate Agent, Kansas City, Mo.
HUGHES, VICTOR	Sabetha, Kas.
HUMMEL, C. M.	Belleville, Ill.
HUMPHREYS, M. S.	Skaneateles, N. Y.
HUNT, L. H., B. S. in M. E. 1905	Minerva Gold Mining Co., Atlanta, Idaho.
HURTZEN, JOHN	Hillsboro, Mo.
HERWITZ, J. M.	2900 Olive St., St. Louis, Mo.
HUTCHESON, C. G.	Kansas City, Mo. National Bank.
IBARRA, JOSE R.	Alamos, Sonora, Mexico.
IIJIMA, ZENTARO	Iijima Transformer Co., Tokio, Japan.
IRONSIDE, R. P.	Vinita, Okla.
ISAACSON, A. F.	Kansas City, Mo.
JACKLING, D. C., B. S. in Met. E. 1902, Met. 1903	Pres. Utah Copper Co., Salt Lake City, Utah.
JAMISON, E.	Oaks & Reese Mine, Hornetos, Cal.
JAMES, S. B.	Engevale, Kas.
JOHNSON, C. L.	Buckner, Mo.
JOHNSON, H. F.	Kansas City, Mo.
JONES, S. B.	Englevale, Kas.
JOHNSON, E. M., B. S. in Chem. 1892	Assayer and Chemist, Iola, Kas.
JONES, C. H.	1416 Morehouse Block, El Paso, Tex.
JONES, T. M.	1416 Morehouse Block, El Paso, Tex.
JONES, BERTIE	Rolla, Mo.
JONES, E. E.	Albuquerque, New Mexico.
JONES, F. A., C. E., E. M. 1892	715 N. 8th St., Albuquerque, New Mexico.
JONES, H. I.	5th St. Between Chestnut and Market Sts. St. Louis, Mo.
JONES, J. W.	Webb City, Mo., Assay Office
KEENAN, J. T.	Wilcox, Ariz.
KEPLER, H. C.	Alexandria Bay, N. Y.
KERSTING, F. J., B. S. in C. E. 1897, C. E. 1905	Kansas City Bridge Co., 1105 E. 15th St., Kansas City, Mo.
KIDD, G. C.	Excelsior Springs, Mo.
KIMBERLINE, H. B.	Bucyrus, Mo.
KINDRICK, A. H.	Seymour, Mo.
KING, C. L., B. S. in M. E. 1904	Asst. Supt. Pereguno, Guanjuata, Mexico.
KINNEY, JOS. B.	Sullivan, Mo.

DIRECTORY—Continued

KIRKHAM, J. E., B. S. in M. E. 1895	Iowa State College, Ames, Iowa
KLAUS, F. J.	East St. Louis, Ill.
KLINE, ANNA	Rolla, Mo.
KLINE, OLIVE	Rolla, Mo.
KNAPP, A. B.	Monett, Mo.
KNAPP, H. B.	Beulah, Mo.
KNIGHT, CLARK	Kansas City, Mo.
KNOWLES, R. W.	Kansas City, Mo.
KOEBERLIN, F. R., B. S. in M. E. 1901	Cananea Con. Copper Co., Cananea, Mexico.
KONG, HOLME	Canton, China.
KRIECKHAUS, L. L.	American Smelting & Refining Co., Monterey, Mexico.
KUNZ, DAVE	Mountain City, Nev.
LACHMUND, OSCAR, E. M. 1886	Mine La Motte, Mo.
LADD, H. W.	216 W. 4th St., Ottumwa, Iowa.
LAIZURE, C. M., B. S. in M. E. 1905	Care Chas. C. Moore & Co., Millers, Nev.
LANCASTER, CHAS. H.	Leadville, Colo.
LANDRETH, CHAS. G.	Neosho, Mo.
LAVIN, R.	Poplar Bluff, Mo.
LAZURE, C. M.	Fargo, N. D.
LEAVITT, J. C.	Kansas City, Mo.
LEHMAN, J. L. C., B. S. 1905 in C. E.	Evansville, Ind.
LEON, C. M.	Saltillo, Coah, Mexico.
LEWIS, B. K.	Head Assayer, A. M. S. & R. Co., Aguas Caleintes Plant.
LINDSEY, E. R.	Bowling Green, Mo.
LINTECUM, C. L., B. S. in M. E. 1905	Engineer, Telluride, Colo.
LIVESAY, J. S.	Rolla, Mo.
LONG, EDWIN	Rolla, Mo.
LONG, J. C., B. S. in M. E. 1907	St. Louis, Mo.
LUND, A. E.	Whitehorn, New Mexico.
LUND, R. R.	Whitehorn, New Mexico.
LUTES, WM. B.	Lutesville, Mo.
LUTHER, W. A.	St. James, Mo.
LYMAN, GEO. E., B. S. in C. E. 1902	Edwardsville, Ill.
McCARTHY, J. H., Jr., B. S. in M. E. 1905	Granby S. & M. Co., Phoenix, Ariz.
McCAW, F. J.	Rolla, Mo.
McCOMB, E. H.	St. James, Mo.
McCOMB, J. A.	St. James, Mo.
McCUTCHEN, W. L.	Wichita Falls, Texas.
McELROY, W. M.	Fort Scott, Kas.
McENTEE, J. M.	Kansas City, Mo.
McGRATH, J. E., C. E. 1876	Charge of Boundary Line Survey, Alaska.
McNUTT, B. H.	Monroe City, Mo.
McNUTT, V. H.	Monroe City, Mo.
McMAHON, W. J.	Butte, Mont.
McMASTER, G. A.	Oneida, Ill.
McMILLAN, W. W.	Iola, Kas.
McTIGHE, W. A.	Memphis, Tenn.
MACKLIND, T. J.	St. Louis, Mo.
MacKUNINON, J. A.	Maplewood, St. Louis Co., Mo.
MACOMBER, S. C.	3020 Kingman Ave., Des Moines, Iowa.
MAGOFFIN, EBEN	Duluth, Minn.
MALTBY, W. T.	Sedalia, Mo.
MANHEIMER, H. K.	DeSoto, Mo.
MANWARING, E. O. R., B. S. in M. E. 1905	Cananea Con. C. Co., Cananea, Mexico.
MARSTON, P. L.	Chilpanargo, Guerrero, Mexico.
MARTIN, W. G.	United Zinc & Chem. Co., Denver, Colo.
MARTINEZ, JUSTO G., E. M. 1886	Chemist, Mex. International R. R., Guanacieve, Mexico.
MARTINEZ, L. D.	Saltillo, Coah, Mexico.
MAY, LAWRENCE, B. S. in M. E. 1903	Winthrop, Cal.
MERRIZ, E. J.	Rolla, Mo.
MILLARD, T. F.	Correspondent, N. Y. Herald, New York, N. Y.
MILLSAP, T. H., C. E. 1877	Steelville, Mo.
MINGER, WM. C., E. M. 1876	Assayer and Chemist, Denver Colo.

DIRECTORY—Continued

MINOR, C. E., B. S. in M. E. 1904	Can. Con. C. Co., Cananea, Mexico.
MITCHELL, E. Y., Jr.	Baldwin Theatre Bldg., Springfield, Mo.
MITCHELL, R. C.	Duluth, Minn.
MOORE, H. C.	
MOORE, S. R., B. S. in M. E. 1905, E. M. 1907	Wallace, Idaho.
MORGAN, G. B., B. S. in M. E. 1904	Indianapolis, Ind.
MORGAN, KARL R.	Lyons, Iowa.
MORRISON, E. L.	Auxiasse, Mo.
MORROW, S. L.	Atlantic & Birmingham Construction Co.,
MORSE, L. C.	St. Louis, Mo. [Oglethorpe, Ga.
MORTLAND, H. E.	St. Louis, Mo.
MURPHY, A. P.	Rolla, Mo.
MURPHY, B. F.	Bonne Terre, Mo.
MYERS, CLAUDE	St. Louis, Mo.
NESBITT, W. C., B. S. in M. E. 1905	Weiser, Idaho.
NEY, L. J.	Kansas City, Mo.
NICHOLS, C. A.	Pocahontas, Okla.
NIEDRINGHAUS, I.	St. Louis. Mo.
NILES, CLAUDE	Checota, Okla.
NORDYKE, REX	Bethaine, Mo.
NORMAN, L. E.	Huntersville, Mo.
NORTHRIP, G. W.	Askton, Ill.
NORTON, B. N.	Cananea, Mexico.
NORVELL, MAX	Steelville, Mo.
OHMAN-DUMESNIL, A. H., E. M. 1877	3553 Park Avenue, St. Louis, Mo.
OLIN, DAVE	Kansas City, Mo.
OLMSTED, G. L., B. S. 1901	Chem. Dept. Amer. Steel & Foundry Co.,
ORMSBY, R. G.	Kansas City, Mo. [Granby, Mo.
ORTIS, V. N.	Mexico City, D F., Mexico.
OVERSTREET, C. Z.	Indianapolis, Ind. [City, Idaho.
PACK, J. A., E. M. 1877	Supt. Republic Gold M. & M. Co., Boise
PACK, J. W., E. M. 1874	Assayer U. S. Mint, San Francisco, Cal.
PAINTER, WM. R., C. E. 1882	Carrollton, Mo.
PALMER, LEFFNER	Saratoga, Wyo.
PARKER, D. L. T.	Ponderay, Idaho, Panhandle Smelting Co.
PARKER, L. F., Jr.	U. S. Judge, Vinita, Okla.
PARKER, R. L.	St. Louis, Mo.
PEARCALL, S. F.	Seacuff, L. I., New York.
PEATROSS, J. L.	Washington, D. C.
PENA, ARTURO DE LA	Saltillo, Mexico.
PEREZ, ELISEO	C. R. Rubio, Coahuila, Mexico.
PERRIER, A. S.	Charcas, S. L. P., Mexico.
PERKINS, E. T., B. S. in M. E. 1899, E. M. 1902	Am. Steel & Foundry Co., Granby, Mo.
PERKINS, F. H., B. S. C. E. 1899, B. S. M. E. 1900	Chemist, A. J. Orem Mining Co., Salt Lake
PERKINS, W. C., B. S. in C. E. C. E. 1907	Plattsburg, Mo. [City, Utah.
PERRY, W. C.	Kansas City, Mo.
PFEIFFER, J. B.	Buena Park, Cal.
PHELPS, R. L.	West Plains, Mo.
PHELPS, T. I., B. S. 1906	River Portal, Colo., Dept. of the Interior,
PHILLIPS, J. E.	Wheaton. Ill. [U. S. Geological Survey
PHILLIPS, W. I., B. S. in M. E. 1907	717, College Ave., Wheaton, Ill.
PICKLES, J. L., B. S. in M. E. 1902	DeSoto, Mo.
PIERCE, R. L.	Rolla, Mo.
POMEROY, CHAS. H.	Kansas City, Mo.
POOLE, F. B.	Rolla, Mo.
POOLE, RALPH,	Rolla, Mo.
POWELL, F. B., B. S. in M. E. 1906	Rolla, Mo.
POWELL, WALBRIDGE H., B. S. in M. E. 1901, E. M. 1903	St. Clair, Mo.
PRICE, E. E., B. S. 1904	Eng. Ohio Copper Co., Bingham Canon, Utah.
PRICE, J. M., B. S. 1904 in M. E.	La Plata, Colo.
PRONT, J. W., Jr.,	Golden, Colo.
PRUGH, J. I., B. S. in M. E. 1905	Gold Park Mining Co., Banning, Cal.
PRUGH, J. K.	Sioux City, Iowa.
PUTMAN, L. T.	Fair Grove, Mo.
PYLES, NATHANIEL	El Dora Springs, Mo.
QUINN, M. V., B. S. in M. E. 1905	Perne Yon, N. Y.

DIRECTORY—Continued

QUINN, T. F.	P. O. Box 71, Monett, Mo.
RANDALL, C. C.	Kansas City, Mo.
RATCLIFF, F. F.	Vinita, Okla.
RAY, G. D.	Rolla, Mo.
REED, LEO, Jr.	Pittsburg, Pa.
REGAL, F. H.	Gen. Delivery, St. Louis, Mo.
REX, H. N.	Creston, Iowa.
REID, A. H.	Colgate, Okla.
REID, J. C., E. M. 1893	Supt. Mines Southwestern Coal & Improvement Co., McAlester, Okla.
REINOLD, CLYDE O.	Rolla, Mo.
RICE, ANNA L.	Wadena, Minn.
RICE, J. T.	1615 Emmet St., Omaha, Neb.
RICHARDS, B. M.	Knoxville, Tenn.
RICHARDS, C. H.	Fairmont, Cal.
RICHARDS, O. R.	Bradshaw, Neb.
RIVERA, RAMON, B. S. in M. E. 1906, C. E.	Guadalajara, Jalisco, Mexico.
ROESLER, H. A., B. S. in M. E. 1903, E. M. 1905.	
ROGERS, H. F., B. S. in Chem. and Met. 1899	St. Louis, Mo.
ROGERS, JOHN, B. S., E. M. 1903	Eng. Cochite Gold Mining Co., Bland, New
ROHERER, W. E.	South McAlester, Okla. [Mexico.
ROLUFS, R. T., B. S. in M. E. 1901 E. M. 1903	Herculaneum, Mo., St. Joe Lead Co.
RONE, L. A.	Charlotte, N. C.
ROOT, JAMES	Des Moines Casket Co., Des Moines, Iowa.
ROSS, BEAUREGARD, E. M. 1882	Denver, Colo.
ROWE, S. B.	Rolla, Mo.
RUBEY, H. K.	St. Louis, Mo.
RUCKER, R. F., B. S. in M. E. 1906	Atlas Portland Cement Co., Hannibal, Mo.
RUSH, H. B.	Marshfield, Mo.
RUSS, C. A.	Eureka Springs, Ark.
RUSSELL, R. W.	Cameron, Mo.
SAITO, T. S.	Tokyo, Japan.
SALLY, JAS. B.	Rolla, Mo.
SALTS, W. J.	Rolla, Mo.
SAMUEL, T. D.	Kansas City, Mo.
SAPPENFIELD, VIRGIL	Kirkville, Mo.
SCHMITZER, J. L.	Hannibal, Mo.
SCHRANTZ, A. B., C. E. 1882	Morning Sun, Iowa.
SCHROEDER, J. S., B. S. 1904	Assayer, Ross M. & S. Co., Solverton, Colo.
SCHULZE, H. O., B. S. in M. E. 1899, E. M. 1902	
SCHUG, E. O.	Argentine, Kas.
SCHULZE, E. V.	Vetschon, Germany.
SCOTT, DENNIS	Newburg, Mo.
SCOTT, ETHEL	Rolla, Mo.
SCOTT, HOMER E.	Steinway Hall, Chicago, Ill.
SCOTT, J. B., B. S. in G. S. 1907	Rolla, Mo.
SCOTT, JOHN WALTER	Rolla, Mo.
SEAMON, FRANK HENRY, E. M. 1891	Chemist and Assayer, El Paso, Tex.
SEAMON, H. W.	Moundsville, W. Va.
SEAY, CLIFFORD E.	
SEBREE, J. P., B. S. in M. E. 1907	La Junta, Colo.
SEELE, R. H.	Rolla, Mo.
SEVERLING, GEO.	Carrolton, Ill.
SHAFFER, T. P.	Rolla, Mo.
SHANKS, J. D., B. S. in M. E. 1906	Telluride, Colo.
SHAW, HIRAM MILLER	Dallas, Texas, Oriental Hotel.
SHAW, OLIVER CLARK	P. O. Box 624, Victor, Colo.
SHELDON, W. E., B. S. in M. E. 1905	Prescott, Ariz.
SHIELDS, D. F.	Carrollton, Mo.
SHINEMAN, F. W.	Rolla, Mo.
SIMMINGTON, F. J.	% G. H. French, Asst. Eng. Liggett Bldg.
SIMPSON, M. E.	Kansas City, Mo. [St. Louis, Mo.
SLOCUMB, S. D.	1389 Granville St., St. Louis, Mo.
SMITH, C. D., B. S. in M. E. 1905	Neosho, Mo.
SMITH, G. W.	212 N. Court St., Rockford, Ill.
SMITH, H. G.	Corecheno, Chih., Mexico.
SMITH, L. A.	Rolla, Mo.

DIRECTORY—Continued

SMITH, LORIN X., E. M. 1880, C. E. 1881	Houston, Mo.
SMITH, S. M.	Rolla, Mo.
SOEST, HERBERT H.	1202 Washington Ave., Colorado Springs.
SOEST, WALTER E., B. S. Chem. & Met. 1899	Chihuahua Chia, Mexico.
SOLLARS, CHAS. S.	Warrensburg, Mo.
SOUTHGATE, J. M.	4228 Castleman Ave., St. Louis, Mo.
SPENCER, C. B., C. E. 1893	Joplin, Mo.
SPENCER, HERBERT G.	Conception del Oro, Zacetacas, Mexico.
SPENGLER, ALBERT, B. S. in C. E. 1901	National Construction Co., 435-436 Empire
SQUIER, E. E., Jr.	St. Louis, Mo. [Bldg., Denver.
STAUBER, I. J. H., B. S. in M. E. 1901	Bisbee, Ariz., Chief Eng. Chattick, Ariz. Cop-
STEINMESCH, J. H., B. S. in M. E. 1906	Des Loge, Mo. [per Co.
STERN, J. A.	Berkley, Cal.
STEVENS, J. V., B. S. in M. E. 1906	Clayton, Mo.
STEWART, A. J., B. S. in M. E. 1891, E. M. 1897	Parral, Mexico.
STONE, J. R.	Strafford, Mo.
STRINE, D. L.	Fresno, Cal.
STRINE, J. H.	Fresno, Cal.
SUMMERS, E. B., C. E. 1881	Pittsburg, Pa., 306 Oakland Ave.
SUNADA, S., B. S. in Chem. and Met. 1907	Rolla, Mo.
SUPPAN, L. R. A.	2648 Russell Ave., St. Louis, Mo.
TAGGART, J. A.	Freeport, Ill.
TALBERT, T. J.	Cassville, Mo.
TAUSSIG, A. J.	Sanguinet & Taussig, Architects, Victoria
TAYLOR, E. M.	Jackson, Mo. [Bldg., St. Louis, Mo.
TAYLOR, C. M.	Jackson, Mo
TAYLOR, J. M., B. S. in M. E. 1905	Salt Lake City, Utah, % W. L. Griffith.
TAYLOR, H. J., B. S. in C. S. 1899, B. S. in M. E. 1900	Spokane, Wash.
TAYLOR, W. P.	Cleveland, Ohio.
TAYMAN, F. J., B. S. in C. E. 1899, B. S. in M. E. 1900	Mine Supt. Los Grados, Guerrero, Mexico.
TAYMON, G. H.	Lebanon, Mo.
TECHOW, W.	Berlin, Germany.
TERRELL, A. D., B. S. in C. E. 1898, B. S. in M. E. 1899	411 East St., Iola, Kas.
THIELE, L. W.	228 4th Ave., Spokane, Wash.
THOMAS, A. A., Jr., B. S. in M. E. 1905	Assayer, Ketchikan, Alaska.
THOMAS, M. L.	Mining Engineer, % University Club, Mexico
THOMAS, W. S., B. S. in Chem. and Met. 1894	Ashwood, Oregon. [City, D. F.
THOMPSON, R. C., M. S. 1904	Rolla, Mo.
THURSTON, O. V.	Taneyville, Mo.
TIPTON, SAMUEL	Hargadine-McKittrick Dry Goods Co. St.
TOLEN, H. L.	Bisbee, Ariz. [Louis, Mo.
TOOMEY, J. L.	Con. Frisco R. R., Rolla, Mo.
TROWBRIDGE, W. E.	Springfield, Ill.
TRUED, W. J.	Houston, Texas.
TSEUNG, T. C., B. S. in M. E. 1907	Cleveland, Ohio.
TUPES, E. E.	Roymore, Mo.
TWEED, W. J., B. S. in M. E. 1904	Edwardsville, Ill.
TYRRELL, F. L., C. E. 1892, E. M. 1893	Salem, Mo.
VAN DE VANDEVENTER, H. M., C. E. 1882	Mining Brown Hematite, Cedartown, Ga.
VAN FRANK, P. R., E. M. 1885	Little Rock, Ark., Asst. Eng. U. S. Gov.
VIA, W. A.	Rolla, Mo.
VILLAREAL, FELIZARDO	Mexico City, Mexico.
VITT, J. C., B. S. C. E. 1907	Union, Mo.
VITT, J. T.	Glen Carbon, Ill.
WALKER, F. T.	Memphis, Tenn.
WALSH, F. H.	Gilbertville, Mass.
WALKER, J. C.	Rolla, Mo.
WALKER, J. E.	Rolla, Mo.
WALKER, J. E., B. S. in M. E. 1903	El Paso, Texas.
WALLACE, H. R.	Webb City, Mo.
WALSH, F. H., B. S. 1902	Chief Electrical Engineer, Guan. Mining and Milling Co., Guanajuata, Mexico.
WALTERS, A. W.	St. James, Mo.
WASH, E. R., B. S. in M. E. 1907	Yerington, Nev.
WATKINS, J. C., B. S. in C. E. 1901	Galena, Mo.

DIRECTORY—Continued

WATSON, J. A.	Rolla, Mo.
WEBB, C. D.	Sioux City, Iowa.
WEBB, R. H.	Asst. Supt. A. S. & R. Co., Aguas Caleintes,
WEBSTER, R. S., B. S. in C. E. 1903	Havana, Cuba. [Mexico.
WEIDNER, F. H., B. S. in M. E. 1903	Gas, Kas.
WEIGEL, W. M., B. S. in M. E. 1900, E. M. 1903	Supt. Stanley Mining & Smelting Co., Ban-
WEISSGERBER, OTTO	Lebanon, Mo. [nochburn, Ontario.
WELCH, J. L.	San Francisco, Cal., Majestic Hotel.
WELLS, F. O.	Prescott, Ariz.
WHITE, GEO. C.	Neosho, Mo.
WHITE, J. E.	Norborne, Mo.
WHITEHEAD, A. S.	St. Joseph, Mo.
WILES, GEO. B., C. E. 1887	Houston, Tex.
WILFLEY, C. R.	La Cabrera Hostotipaquillo Jalisco, Mexico.
WILLIAMS, BRUCE	Chanute, Kas.
WILLIAMS, M. G.	Jackson, Mo.
WILLIAMS, W. W.	Des Moines, Iowa.
WILSON, MORRIS	Jackson, Ill.
WILSON, A. D., B. S. in Met. E. 1902, Met. E. 1906	Chemist, Laclede Gas Co., St. Louis, Mo.
WILSON, F. L. L.	McGill, Nev.
WILSON, F. W., C. E. 1884	London, England. N. Y. Central Draw Span over Harlem River.
WILSON, FREMONT, C. E. 1885	Div. Engineer, Mathews, Ind.
WILSON, H. P.	Denver, Colo.
WILSON, NORVAL	Settles Station, Mo.
WILSON, T. M.	Kirkwood, Mo.
WINTERS, C. F., E. M. 1879	Teller, National Bank, Los Angeles, Cal.
WISEMAN, E. W.	3629 11th St., N. W., Washington, D. C.
WISHON, W. W., E. M. 1881	658 S. Bonne Brae St., Los Angeles, Cal.
WOOD, A. E.	Rolla, Mo.
WOOD, F. B.	Fortworth, Texas.
WOOD, G. R.	Haverhill, Mass.
WOOD, H. L.	Rolla, Mo.
WOOD, O. A.	Sedalia, Mo.
WOODBURN, CURTIS	Denver, Colo.
WOODHALL, GEO., Jr., B. S. in M. E. 1901, E. M. 1903	Des Loge Lead Co., Des Loge, Mo.
WOODS, CLARENCE, B. S. in M. E. 1904	Dewey, Idaho.
WOREL, LISH	Plattsmouth, Neb.
WRIGHT, I. L., B. S. in M. E. 1907	Bisbee, Ariz.
WYMAN, W. C., B. S. in M. E. 1906	Anchor Coal Co., Ottumwa, Iowa.
YEATER, MERRITT W., E. M. 1886	Sedalia, Mo.
ZERTUCHE, FRANCISCO	Mexico City, Mexico.
ZERTECHUZE, FRANCISCO	C. R. Rubio, Coah, Mexico.
ZIRULICK, HYMAN, B. S. in M. E. 1907	Minsk, Russia.
ZWEERES, J. A.	22 Chestnut St., N. Y.



AN ALUMNI SCENE

Missouri School of Mines
Athletic Association

J. J. SANDFORD, President.
R. L. MOOK, Vice-President.
J. H. BOWLES, Treasurer.
BRIGHTON HUMPHREY, Secretary.
FRANK LIVINGSTON, Physical Director.

FOOTBALL

W. G. STAHL, Captain.
LINDELL CHEW, Manager.

BASEBALL

W. D. PEESO, Captain.
R. L. MOOK, Manager.

TRACK

E. P. BARRETT, Captain.
L. R. WALKER, Manager.

BASKETBALL

C. GREGORY, Jr., Captain.
G. T. TWYMAN, Manager.

BOARD OF CONTROL

J. J. SANDFORD.
J. H. BOWLES.
PROF. D. COPELAND.
LINDELL CHEW.
W. G. STAHL.
W. D. PEESO.
R. L. MOOK.
L. K. WALKER.
E. P. BARRETT.
C. GREGORY.
G. T. TWYMAN.

COACH LIVINGSTON



It is our pleasure to put before the student body and the athletic constituents of the School of Mines, a few facts about our excellent athletic director and Coach, F. C. H. Livingston.

July last, the State Board created the office of Director of Athletics for the Missouri School of Mines, salary to be forthcoming from the State. Former Coach Boland being unable to return and resume his duties, a selection of Livingston was made.

From the very start Livingston exercised an authority and control of the boys, which alone can produce the kind of team that we want and always expect. His excellent knowledge of football and other athletics, most of which he obtained at Columbia, Mo., combined with his practical ability to get out and demonstrate just what he meant and wanted, stood him in good stead. His inside knowledge of all athletics was instilled in him by such men as McLean, Pat O'Day, Monilaw, Ebright and Anderson. Under each of these men he has played and been coached until we are proud to say that in him we think we have one of the best coaches in the country.

The successful showing of our football team in the season just passed centers in a way around Livingston as a coach, and his inventive genius alone helped us to hold or defeat such teams as St. Louis University and Washington when our line and back field was unusually light for a collegiate team. Our football victories are still fresh in our mind and we feel that too much cannot be said of "Livy's" work in bringing this about. We are proud of him and let us hope that under his guidance our other 1908 teams, baseball, track and basketball, may take the football team as a harbinger of victories for the remainder of the athletic year.

REVIEW *of* THE FOOTBALL SEASON

In a few words we might give a resumé of last year's football team. Their victories are still fresh in our minds.

The two defeats of the season which were administered by the famous St. Louis University team and the Arkansas University team, were in a way moral victories, for it showed our boys that they were capable of putting up, against odds, a strong and plucky game.

It would be hard to name any individual stars, since each member of the team at one time or another distinguished himself.

The Freshman class contributed two or three men of great ability in this line and the prospects for a championship team for next season seem brighter than ever.

FOOTBALL SQUAD

W. G. STAHL.....Captain.
LINDELL CHEW.....Manager.

Team.		Substitutes.	"M" Men.
E. P. BARRETT	Center.	T. W. BLAKE.	CHEW.
F. NACHTMAN	Right Guard.	H. H. MARTIN, Jr.	DRAKE.
J. C. COMPTON	Left Guard.	C. T. JOBES.	BOWLES.
A. N. DETWEILER		CLAY GREGORY, Jr.	SCHMIDT.
J. J. BOWLES	Left Tackle.	H. GARCIA.	MACOMBER.
LINDELL CHEW	Right Tackle.	P. A. PHILIPPI.	NACHTMAN.
ROB'T DRAKE	Left End.	H. H. SWENSON.	BARRETT.
F. O. BLAKE	Right End.	J. M. GOLDMAN.	STAHL.
A. X. ILLINSKI		GEORGE MENEFEE.	MORGAN.
MARK MAZANY		RICHARD TOWNSEND	
CAREY RAMEY	Quarter Back.	A. N. DETWEILER.	
S. R. SCHMIDT		F. J. FLYNN.	
A. R. MORGAN	Full Back.	L. W. MOORE.	
W. G. STAHL	Right Half Back.	C. J. WILLIAMS.	
S. C. MACOMBER	Left Half Back.		

FOOTBALL SCHEDULE

St. Louis University	12	Rolla	0
Smith Academy	0	Rolla	12
McKinley High	0	Rolla	24
Battery A	6	Rolla	11
Washington U	8	Rolla	11
Cape Girardeau Normals	5	Rolla	37
Arkansas U	7	Rolla	5

FOOT, BALL





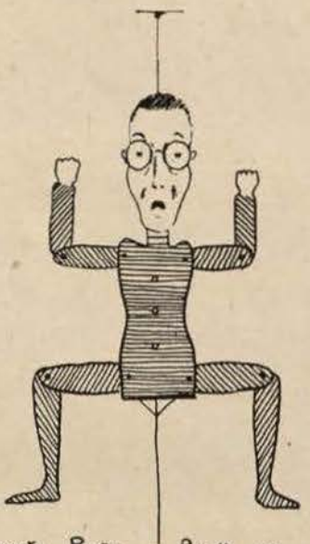
RAMEY.

JOBES. MARTIN. CHEW. GARZA. L. C. MOORE. LIVINGSTON, COACH.

STAHL, CAPT. COMPTON. PHILIPPI. BLAKE. DRAKE. ILLINSKI.

MACOMBER.

F. BLAKE. BOWLES. BARRETT. MORGAN. NACHTMAN. SWENSON. DETWEILER.



Automatic Rooter. Pull the string and The figure will move!

"Now then fellers all together"
"Pick and shovel, Diamond drill"
"Who'll win? The Miners will."

REVIEW *of* THE BASEBALL SEASON

As Spring again approaches we are actuated by that same old baseball fever. The air is alive with the ring of bats on the horsehide and the spat of the ball into the fielder's glove. All of our studies and other "pleasures" are for the time being forgotten as we sit once more in the bleachers and watch the Miner's play ball. In the pride of this year's team let us not forget our last.

Last year's team was strong in nearly all positions. Many of the men were crippled during the invasion of the Southern schools and while our showing in baseball was not of the best, we all tried hard and if it did not bring in victories, it made us numerous friends in the different Colleges we visited.

Let us hope for another such trip in the near future and better luck in scores.

Captain	F. WILSON.
Managers	BAILEY and BAUERIS.
Coach	E. F. BOLAND.

M—W. PEESO	C.
M—F. WILSON	1st B.
M—C. GREGORY	S. S.
M—L. PHILLIPS	2nd B.
M—B. DOSENBACH	3rd B.
M—O. KLOCKMAN	R. F.
M—R. McCRAE	C. F.
M—R. DRAKE	L. F.
M—B. MATTOX	P.
M—R. ORMSBY	P.
M—R. MOOK	P.

H. OWEN	3rd B.
W. BAUERIS	S. S.
T. ELTON	C.
J. GOLDMAN	C. F.
F. BLAKE	3rd B.

BASE BALL





PHILLIPS. MOOK. McCRAE. PEESO.

BLAKE. GREGORY. ORMSBY. BAUERIS. ELTON.

OWEN. DOSENBACH. WILSON. GOLDMAN. DRAKE.

REVIEW *of* THE TRACK SEASON

The track team of last year, while not strong in numbers, contained excellent material. Their showing against the Central Y. M. C. A. team of St. Louis was indeed remarkable. This team as composed of such men as Forline, Millhouse and others, is considered one of the star athletic teams of St. Louis. Our men held this team to a tie on points.

The Freshman class will contribute to this branch of athletics in the Spring. We were particularly fortunate in obtaining some of the interscholastic stars of St. Louis.

We are justifiably elated over the prospects for the coming season and feel that under the leadership of Captain Barrett we will achieve new laurels for M. S. M.

TRACK TEAM

V. B. HINSCH, Manager. G. H. BOYER, Captain. GEO. VOGT, Asst. Manager

TEAM

WILSON (M).		
BARRETT (M).	BLAKE (M).	
BOYER (M).	BUNTEN.	PORTH.
	FARRAR.	TOWNSEND.
	MORGAN.	TRAUGHBER.

SQUAD

Sprints.	Hurdles.	Distance.	Jumps.	Weights.
BLAKE.	BLAKE.	BOYER.	BLAKE.	WILSON.
BUNTEN.	PORTH.	FARRAR.	TOWNSEND.	BARRETT.
MORGAN.	BARTLETT.	DOUGHERTY.	TRAUGHBER.	HINSCH.
TOWNSEND.	LOVERIDGE.	FRENCH.	GOLDMAN.	BOWLES.
BARTLETT.		HARRISON.		A. DETWEILER.
MINOR.		OHNSORG.		M. DETWEILER.
RIEDE.				VOGT.
				LANGSDALE.



HINSCH, MGR. TOWNSEND. MORGAN. BUNTEN. FARRAR.
PORTH. TRAUGHBER.
BOYER. WILSON. BARRETT. BLAKE.

BASKETBALL

TEAM.

GREGORY (Captain)	Forward (M)
BLAKE	Forward (M)
PORTH	Center (M)
TWYMAN (Manager)	Guard (M)
MAZANY	Guard (M)
DETWEILER	Guard (M)

SQUAD.

SIEGMUND. HARRISON. MAZANY.
RANDOLPH. FARRAR. DETWEILER (M. H.)
CODY. BLAKE (F. O.) KURTZ.
PUDEWA. PORTH. CLARKE (W. D.)
OHNSORG. GREGORY. SEDIVY.
MITCHELL. TWYMAN. BLAKE (T. W.)
FORRESTER.



NACHTMAN. JOHNSON. COASKE. FLYNT. SEAMON.
MITCHELL. KENISON. MORGAN.



Masquerade Baseball Game

At ATHLETIC PARK

SATURDAY MAY 11th, 1907

White Socks vs. Dirty Socks

BENEFIT ATHLETIC ASSOCIATION

LINE-UP

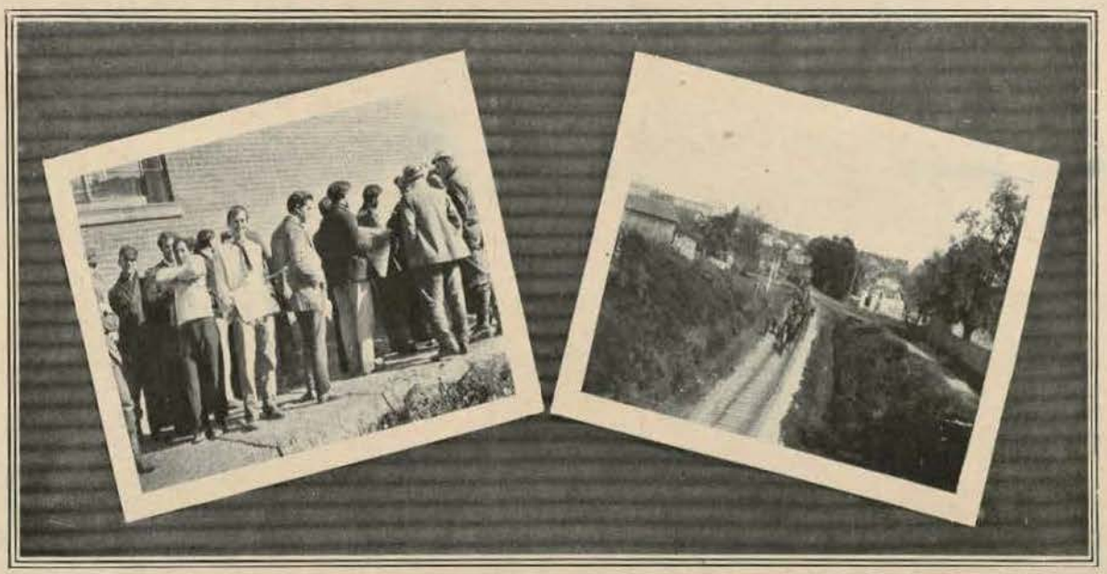
AUGUST KENUPELSTEIN	Catcher	FATTY FELIX.
CUTTHROAT CASPER	Pitcher	SCARY WILLIAM.
HANDSOME HARRY	1st Base	DAZZLING LIZZIE.
TOMATO CHASER	2nd Base	PANHANDLE PETE.
RAGHANDLE ISAAC	3rd Base	SIMPLE SUSIE.
FANNY SPINDLE	Left Field	SULTAN OF SULU.
SALT PETER	Center Field	RUDOLPH FORGETTI.
UNCLE BING	Right Field	AUNT EMMY.
DRY BATTERY	Substitute	WET BATTERY.

Susie's Band will Furnish the Music

PARADE 2:30. GAME CALLED 3:15.

ADMISSION, TWO BITS.

The Green Cap Scrap



There are some affairs which mean much to a college man while to the man out of college or to the man who has never attended, they mean little or rather mean a state bordering on imbecility or childishness.

Here is an extract from a paper of a neighboring town more famed for its lack of tidiness than for its erudition:

"We can draw a mental picture of the great dailies of New York City anxiously awaiting the reports of the great fight in Rolla. In fancy we can hear the great captains of industry on Wall Street breathlessly asking each other 'Who won at Rolla, the Pancake Hat brigade or the Bagpants boys?'"

The affair which is scorned in such noble language and used considerable valuable (?) space was none other than the good time we had when the Freshmen donned the green caps.

About three a. m. on the morning of October 27th the Freshmen commenced "grabbing" the Sophomores from their warm beds and taking them to a cool and breezy retreat back of the campus where they were securely bound and left for safe keeping.

Breakfast time disclosed the dark secret of the poor Freshies. Sophomores were missing from their accustomed stalls and many a down-turned plate and vacant chair bore mute warning of the terrible fate that had been meted to the poor freezing Sophs.

"Procs" had been issued by both sides and much vituperative wit had been blatantly displayed on barns, telegraph posts and other available spots. The Freshmen had made the first move in strategy and it would have been an effectual one had not it been for a misinformed peacemaker who cut the Sophomores loose.

After a preliminary massing of forces had taken place the whole student body marched upon the Freshmen who were awaiting the attack at Mechanical Hall. As the enemy came in sight the Freshmen made a rush and met their foe in a hand to hand struggle. As each Freshman was overcome he was tied up and roped in line with the rest of the poor unfortunates. All save one man were in line. H. H. Martin by his prowess in the encounter was allowed to walk shackle free and followed like a hero.

A march was commenced that lasted for nearly two hours. Mitchell at the head of the line as class president, was trying to play a cornet. It was FIERCE! !

A halt was called for parley opposite the post-office and there were speeches by any one who had any

THE GREEN CAP SCRAP—Continued

thing to say. A proposition was made the Freshmen, they rejected it; it was made again and rejected and finally the Freshmen asked for a private discussion. It was allowed and they fought among themselves for a time and finally came to a decision "We accept" was the verdict of the President and soon the whole crowd raided the official supply shop and were all fitted with the green badge of Firstyeardom.

A rally 'round the town scales resulted in more speeches but no one had a thing to say until John Bowles vociferated, "All you fellers that want to go to school this afternoon, run this-a-way and you all that want a holiday run this." —One lone man ran the wrong way—and he misunderstood.

That afternoon, with the Director's consent, was devoted to a holiday. The band headed the procession, that is all of the band except the brasses and reeds—the drums and cymbals were there in force. After a parade around town the procession wended its way out the track, through the cut and down into Malta Spring Valley.

Stunts! Didn't they do stunts! John Bowles again. He gave a rousing speech on Mechanism as applied to various matters of common life and made a noteworthy hit in the debate by drawing comparisons based on the double eccentric and toggle arrangement. His side won the debate. The question was—Oh well, no matter what it was now, anyway his side won.

Buck Owen and Jobes did some athletic stunts. Their tumbling was excellent, especially in the up hill race.

More talk. Compton made a speech and vented his enthusiasm in other ways.

Menefee's monologue and song act won great applause. His encore was a poem of some length which exhibited his remarkable memory.

The programme might be continued indefinitely but what's the use? We were all there. If there was anyone missing his name is unknown and he deserves not to know what happened.

Then the lunch. The Sophomores put up a good spread to their erstwhile enemies, the Freshmen and the upperclassmen as guests. When it was all gone the Juniors duplicated it in short order and everyone had enough and to spare. Darkness fell and found few deserters.

At night a big bonfire on the Athletic Field with more speeches, the college songs and Rah's for everything connected with M. S. M.

This scrap marked the close of the hazing season and the Freshmen were now a component part of the student body and free to go out after dark.

The point of view determines the value of these sort of things. Perhaps they appear foolish to the outsider but to the man in school they represent a means of keeping "something going on." They typify the "hang together" spirit which goes to make college memories dear in after years and gets the loyal support and remembrance of the man who is "Out."



Johnny Stuart with his noise machine.

Opportunities in the Mining Profession

BY PROFESSOR L. E. YOUNG

The last century has been especially notable, because of the extensive production and use of mineral products. In America during the last century there has been an enormous increase in the production of gold, silver, copper, lead, zinc, iron, coal, petroleum, and gas. In fact, one hundred years ago the total annual value of the entire mineral industry of the United States was less than the present annual value of any one of the economic products enumerated. A study of the census reports of the United States will show that during the last decade the value of the mineral output per capita has increased three-fold. There are many indications that this wonderful activity in the mining industry will continue and probably increase in proportion.

In this industry there is an increasing demand for men of talent and ability—for men technically trained and competent to direct mining and metallurgical operations, and able to solve many problems which can be coped with best by the graduate of the mining school. In geology, mining, ore-dressing, and metallurgy there are problems new to the mining fraternity, there are problems not thought of, which the mining graduate of the present day must solve. These unsolved problems mean greater opportunities.

The geologist is today an important factor in the mineral industry. Almost all of the large mining companies employ skilled men to look after the systematic development of mineral lands, to investigate the structure of ore bodies, to determine the probability of their continuity with depth, and to report on new findings. The work of the Geologists employed by the United States Geological Survey has been greatly appreciated, and usually there is a demand among mining companies for men who have received the training of several years work with the Government.

Economic and Mining Geology offer good opportunities, especially for the Mining Engineer who makes geology a specialty. Not only at home, but also in the Philippines, Alaska, British America, Cuba, Mexico, South America, South Africa, Australia, Siberia, and China, there are openings for Geologists, as well as Mining Engineers and Metallurgists.

In all lands the American Mine Manager and Mining Engineer has deserved and received high station. He is employed not only by the American companies, but by English, French, and German Mining Syndicates as well. The American Manager is noted for his ability to accomplish results, and has proven his power to organize and operate economically from Alaska to Australia, and from El Oro to the Rand. The demand for high class mine superintendents and mine managers is increasing; the difficulty is in finding men to fill satisfactorily the Ten Thousand Dollar positions. The mining graduate who has enjoyed a thorough training under-ground as well as in the theories of geology, chemistry, and engineering in its application to mining, who also has a good business training, and possesses executive ability is sought for continually.

Mining methods must be changed and adapted to varying local conditions. The day of "rule of thumb" practice has passed and progress is everywhere evident. Economy in mining and handling ore underground is as much an essential to profit, as efficieney and economy in the mill and the smelter. New explosives are being tried; the use of power drills is being extended; mechanical haulage is replacing hand-tramming and animal power; concrete is replacing mine timber in some localities; deeper mining calls for additional economics and more powerful machinery.

OPPORTUNITIES IN THE MINING PROFESSION—Continued

The successful treatment of low-grade ores has given to mining a permanency and stability, which places it, from an investor's standpoint, in a class with manufacturing. The possibility of handling lower grade ores usually means longer life for the mine, and the mining engineer and mine manager are now able to introduce economies in power, plant, and general equipment, because of the longer life of the mine.

In the manufacture and use of mining machinery, there is a wide field for the mining graduate. American machinery of many types has been successfully introduced into foreign lands. The international reputation of American mining, milling, and smelting machinery is especially noteworthy. American rock drills may be found in practically every important mining camp in America, Asia, and Africa, where power drills are used. Concentrators, blast furnaces, and ore-crushing machinery of American manufacture are successfully used almost everywhere that ore dressing and smelting are practiced. At least fifty per cent of the possible economies in mining and metallurgy will result from the application of machinery. A study of conditions in Spanish-America, Africa, and Asia, an intelligent adaption of American types of machinery, and the manufacture of special types better adapted to conditions in these countries will prove an attractive and remunerative field for American enterprise.

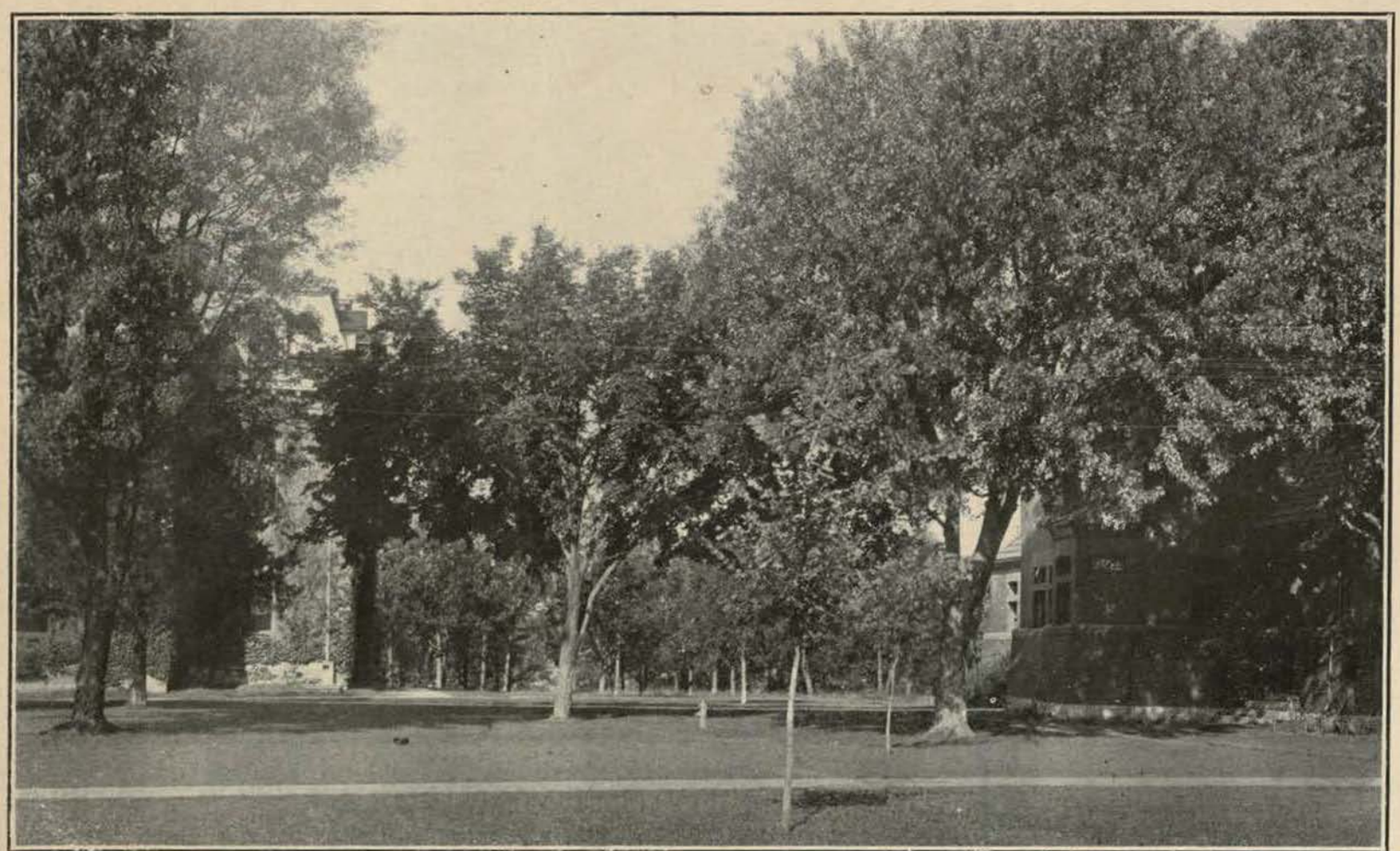
The completion of the Panama Canal will open to machinery companies the west coast of South America. In that region—long famous for its fabulous mineral wealth, where competent mining labor and any variety of skilled labor is at a premium—American engineers who have specialized in mining, milling, and metallurgical machinery will find unparalleled opportunities as the mineral and other resources are developed.

Marked advances have been made in ore dressing practice, principally because of American inventions during the last score of years. Research and tailing samples show that there are still unsolved problems in concentration, and the cost sheets of most mills indicate clearly that additional economics are needed. There are many complex ores awaiting the ambitious mining engineer and mill man. Zinc ores especially merit attention, and in the Rocky Mountains and Mexican mining districts, as well as in Missouri, there are large ore bodies which may be handled with profit, if only the proper system of concentration is applied.

As the higher grade iron ores are being exhausted many deposits of lower iron content will be developed and mined, provided some economic process of concentration can be adapted to the ores. There is likewise an increasing need of washing and dressing of coal. In many other lines there are large opportunities for the Mining Engineer who specializes in ore dressing.

Metallurgy also presents new fields, as well as the old fields, for the coming metallurgist. The discovery of new elements, and of new uses for well known metals, and the development of economic methods for the reduction of hitherto refractory ores, give added impulse to the metallurgist of today, and inspiration to the student in metallurgy.

Economies in the American practice in iron and steel, copper and lead metallurgy, have astonished the world, and recent progress indicates that in gold, zinc, and silver also, the American standard rates with the best of the metallurgical world. In metallurgy there is a large field for the use of machinery of various kinds, and



VIEW ON CAMPUS

the aspiring smelter manager will find that efficient power and efficient machinery play an important part in the conduct of practically every successful smelting plant. While the metallurgy of silver and zinc are splendid fields for the young metallurgist who is on the outlook for unsolved problems, there are even more possibilities in tungsten, vanadium, uranium, and the rare metals. The investigation of the properties and the possible uses of the new elements has proven an attractive field for many, as well as the study of the economic production of alloys useful in the arts.

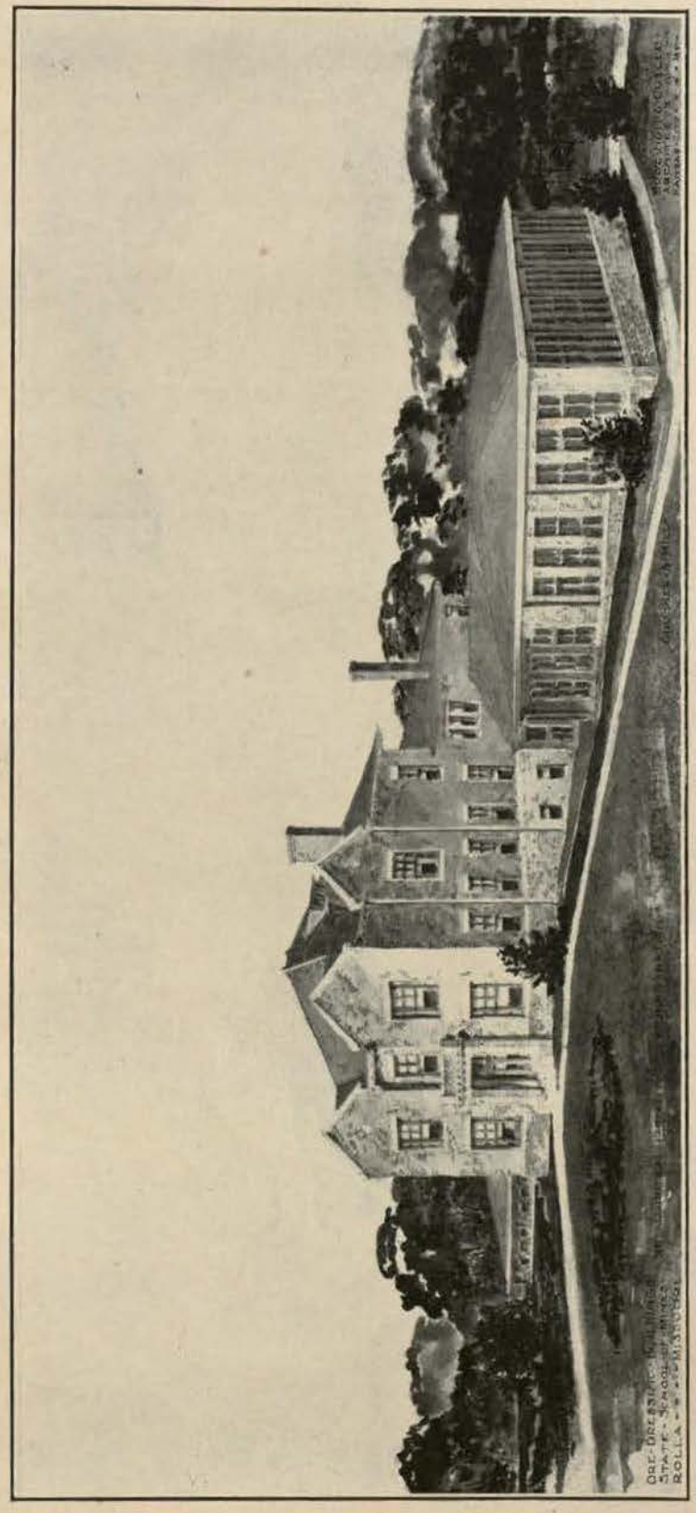
This age has been called an age of extravagance; the next age may be an age of economy. Attention is now being called to the great waste of the nations' resources. Economic production means not only the production at low cost of one or more products, but it should mean the use of everything—manufacture of by-products, The metallurgist has many problems before him in the economic production of by-products in coke manufacture, in copper smelting, in lead and zinc smelting, and in fact in the treatment of every ore. The utilization of the so-called "waste heat" of the smelting plant is in itself a great problem. Electricity now plays a great part in certain metallurgical processes; there are many improvements in the application of electricity to metallurgy which will add efficiency and economy, and in some instances make possible in the smelter some operations now limited to the laboratory. Who appreciates fully the opportunities in the electric furnace?

The enormous loss of life in mining operations and the fatalities which result from continued employment in metallurgical works, have brought to the attention of the Mining Engineer and the Metallurgist, the importance of and the necessity for the protection of the life and health of the workman. In coal mining there have been recently a number of disasters which have brought to a focus the scattered efforts of many individuals and corporations—efforts to improve the system of coal mining and mine ventilation, and thus to make coal mining less dangerous. Various states are working for higher standards, and the United States Government will undoubtedly recognize the necessity for government regulation at least.

Labor will always play an important part in mining and metallurgical operations and, if for no other reason, the mineral industry must immediately see to it that the risk to life is no greater in mining and metallurgy than in other industries, or it will be possible to secure competent labor at reasonable rates.

Safety appliances are being installed wherever they will add in any way to the protection of miners. The United States has been tardy in the application of devices which have proved in Europe their efficiency in the protection of life and health. The engineers of the next decade have before them greater problems and greater opportunities in the efficient handling of the labor problem.

The rapid destruction of our forests and the consequent increase in the price of lumber have directed the attention of the Building trades to brick, cement, and steel for construction purposes. The clay and cement materials of Missouri occuring in a region where fuel is cheap, are deserving of careful development, especially because of the increasing demand for firebrick, building brick, and cement in Spanish-America. The completion of the great inland waterway system will give Missouri an all water route to some of the best markets for clay products and cements. Capital will require competent mining engineers and metallurgists in the ceramic industry in Missouri.



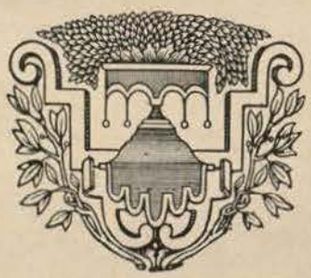
ORE DRESSING BUILDING

OPPORTUNITIES IN THE MINING PROFESSION—Continued

The lead, zinc, and coal deposits in Missouri have been extensively worked, and many graduates of the Missouri School of Mines and Metallurgy have found lucrative employment in the development of these resources. The application of machinery to mining, improvements in methods of concentration, new processes in the metallurgy of lead and zinc, and the use of cheaper power have made possible the profitable working of many old mines and the opening of new deposits. As previously noted, the metallurgy of zinc offer special problems and opportunities for the metallurgist.

A decade ago the graduate of the mining school found among many mining men a deep-rooted prejudice against the college-trained men. Many college men have labored hard, faithfully, and successfully to overcome this prejudice. Their success in this effort may be attributed largely to true worth, tact, humility of spirit, and respectful obedience to law and to duty. The mining graduate of today will not find such a prejudice to overcome, and because of this has a much better chance than had the graduate of ten years ago.

Each discovery, each new application, each additional success, means larger opportunity and better opportunity. The harnessing of water power produces cheaper electricity and presents the problem of the electric drill; the discovery of deeper ore bodies requires more powerful hoisting machinery; the discovery of the mining camp of Cobalt gave an impetus to the study of the metallurgy of Cobalt and of its uses. As the mineral industry has grown, so have the opportunities for the mining graduate multiplied. The mining graduate who is a conservative optimist will find the work of his chosen profession honorable, profitable, and abounding in opportunities.





FRESHMAN SMOKER.

THE FRESHMAN SMOKER

FRESHMAN SMOKER TO-NIGHT

:: :: All M. S. M. Invited :: ::



Dobbins wins the Pie-biting Contest

In accordance with a well established custom of M. S. M., the Freshmen posted the above announcement immediately after the hard game with the "Boys of Battery A" of St. Louis, as a very fitting closing event of that strenuous week beginning October 28th.

At eight p. m. the Miners began to arrive, bringing with them the defeated Battery A team. This was a signal for the "doings" and accordingly the smoker began with the issuing of the proverbial "Missouri Meerschaum" and "Durham," whereupon pipe dreams became numerous in every part of old Chem Hall.

After a few voluntary preliminaries by the visitors consisting of songs and marching the meeting was addressed by President Mitchell of the Freshmen. He was responded to by the football captain of Battery A, thanking the School and the Freshmen for the kind and generous treatment given his team. Both speakers were vigorously applauded. Very sweet, harmless cider was then meted out to all present and the good cheer was general.

The first sensational event of the evening was the pillow fight between "Cocky Wise" Harrison, the champion pillow fighter of M. S. M. and G. A. R. Smith, aspirant for the same honor. Fighting was fast and furious, punctuated now and then by the thud of one of the contestants on the mat. G. A. R's pedal appendages were the undoing of "Cocky," for "Cocky" could not get up quite enough steam to disturb the splendid equilibrium established in G. A. R. by these servicable "clod-hoppers." The prize, a nursing bottle, went to G. A. R. Results; both down, once; "Cocky" down, four times; G. A. R. down twice. Referee, Battery A Boy.

The spectators were next given a scientific boxing match between "Aspen Dick" Townsend and Theodore Washington Diaz, of Chili. Sr. Diaz was inclined to slug a little, but without doing much damage, owing to the fact that "Aspen" was able to land quickly and get into a clinch before Theodore Washington could recover himself. Three rounds were fought, resulting in a decision for "Aspen Dick" on a foul by "Chili." "Aspen Dick's" crouch and attack were strictly American, while "Chili" used the English variety. Referee "Buck" Owen

When volunteer boxers were called for, Mr. Langsdale and "Nox" Nachtman stepped into the ring and favored all with a three round bout, a la Dutch Windmill. Mr. Langsdale seemed to have lost much of the agility he displayed on former occasions and received several taps on the wrist and eyebrows. Three rounds were fought to a draw. Referee, "Buck" Owen.

Pies! Pies! Pies! Raspberry, peach, blackberry, and apple pies were then brought out and four Miners from four different eating houses were selected to represent their club. Dobbins represented the "Lucky Strike," "Frenchy" the "Grubstakers," Gawge Menefee the Grant House and Alexius Grosberg, any old place. When the fumes abated a little it was discovered the Dobbins, of the "Lucky Strike" had won in a "buff-cochin-rooster-at-breakfast-on-dry-cornchop-style." "Frenchy" of the "Grubstakers" was next and Alexius Grosberg third. Neither had a fair fighting chance because "Frenchy" had too much facial area and Alexius was otherwise handicapped. "Hungry Gawge" Menefee never finished for the single reason that pie was too rich for his blood.

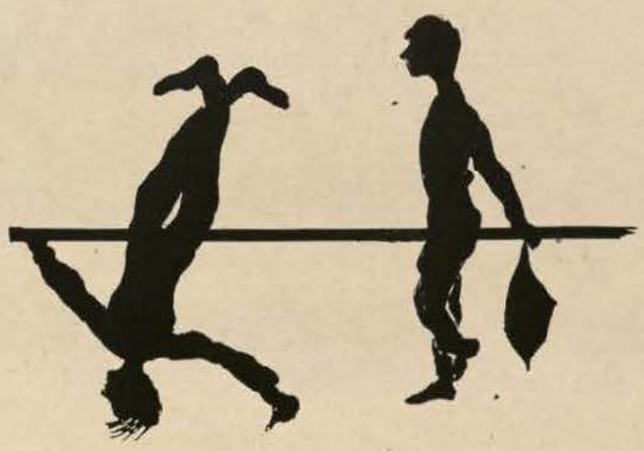
THE FRESHMAN SMOKER—Continued

Sr. Palomares, of Mexico, and "Bachelor" Boyer next performed the first few flowery flourishes of a fencing match, but Sr. Palomares' foil broke and the match fizzled.

After the fencing match, "Bad Mex" Garcia and Joe Bowles, tangled up in a wrestling match. Both went at it with a "Frank Gotch" crouch and a chinaman eye. In the first fall, Mex got a strangle hold which was very hard on Joe. The fall was easily Mex's on account of Joe's weak condition. The next two falls went to Joe who was out for blood. In absence of tenpenny nails Joe had to be content with trying to bite the head off Mex. He nearly did it.

After these events the party was served refreshments and as usual the free for all pie plate fight was on in which Prof. Wilkins starred.

The meeting ended in a stag dance, the last of the merry-makers leaving at midnight, carrying with them cheerful remembrances of the Freshmen, Battery A and old M. S. M.



First blood to Cocky Wise

THE BISBEE TRIP

The much-lauded month of May of 1907 had an additional poetic influence on us students, making it difficult to keep our minds on precise mathematics and abstract physical sciences. We were all dreaming, dreaming day and night of the adventures to be ours in the frontier mining camps which we intended to invade at the close of the school year.

We heard of Bisbee, a little town near the Mexican border, where over one hundred million dollars worth of copper is gleaned yearly from reluctant Mother Earth's bosom, and by the middle of June more than twenty of Rolla's best men had secured positions in the copper mines of Bisbee, Ariz.

Here were assembled college men from every mining school in the country, but the representatives of M. S. M. stood at the front both in numbers and efficiency, comprising more than one fifth of the entire number of collegians and distinguishing themselves admirably in aptness and perseverance. That the latter quality was as important as the first will be shown by a brief description of one of the places in which we toiled.

One particular part of the mine, in which newcomers are tried out, became thoroughly familiar to most of us. It is known to every miner as the "bodey." Here the ventilation was so insufficient that our candles needed constant attention in order to keep them burning.

The heat was so intense that our moderate daily consumption of water amounted to two and three gallons each and we were kept bathed in moisture not only by the excessive perspiration, but at the same time by the warm mine water, which, saturated with sulphurous and sulphuric acids and sulphate of copper, constantly dripped and poured from the roof on our already inflamed skins. While other men soon gave up hope and quit their jobs and old men positively refused to work in this place, our students unflinchingly persevered despite the most violent physical discomfort.

Since the bosses well knew that the time of the students was limited to but three months, promotions were slow, but nevertheless before the end of the summer the M. S. M. fellows were all doing the kind of work that required the most skill and best judgment. Altogether their experience in practical mining in a region of difficult operations was broadening and valuable to a future mining engineer.

So much did the citizens appreciate the exemplary conduct and honest efforts of the college men, that they instituted a ball in our honor. It was a rare treat indeed to mingle with the belles of the Sunny Southwest after three months labor and non-association with the fair sex.

After the ball, which took place near the close of the vacation, the M. S. M. boys, among whom were Walter Dobbins, DeForest Don, J. J. Bowles, O. W. Holmes, Enrico Cavazos, J. M. Baumgardner, A. N. Detweiler, Farrar, W. H. Jones, Miles Sedivy, J. H. Bowles, Earnest Wander, H. C. Hase, Edgar Wolf, P. S. Judy, Fred Boyer, Chas. Trauber, F. L. Loveridge, J. J. Sandford, J. M. Dougherty, J. R. Bland, Albert Bryant, "Windy" Holm, H. Kimmerline, F. L. Treuting and H. E. Newton, bade Bisbee adieu and most of them returned to their studies with honest triumph and elation, none the worse physically for the hard conflict with Nature's forces in the earth's depths.

It is to be hoped that their example will suffice to persuade their more timid class-mates to venture to the mines in the summer of 1908.



DOBBINS DON BOWLES HOLMES
CAVAZOS BAUMGARDNER DETWEILER FARRAR JONES FRENCH
SEDIVY BOWLES WANDER HASE WOLF
JUDY BOYER TRAUGHBER LOVERIDGE

SONGS AND YELLS

E. M.,—CIVIL,—CHEM.
RAH! RAH!
M. S. M.

U! RAH! RAH! M. S. M.
U! RAH! RAH! M. S. M.
U! RAH! RAH! M. S. M.
(Scream.)

Ki! Yi! Muckerim!
Rah! Rah! M. S. M.
(Repeat three times.)

Rack-e Chick-a boom!
Rack-e Chick-a boom!
Rack-e Chick-a
Rack-e Chick-a
Boom! Boom! Boom!
Rip! Re! Ri!
Rip! Re! Rah!
School of Mines and Metallurgy!
Rah! Rah! Rah!

Pick and shovel!
Diamond drill!
Who'll win?
The Miners will!

To be Sung to the Tune of
"You Are a Grand Old Flag."

You are a grand old school,
Under Missouri's rule,
Though you're open to all from afar.
You shine out bright,
Through the dark stormy night,
You're the picture of some glad bright star.
Oh, glorious school, you are known near
and wide,
You're the gem of Missouri's gems;
Should old remembrance be forgot,
Keep your eyes on old M. S. M.

(Song of a Gambolier.)

I wish I had a barrel of rum and sugar
300 pounds,
The College bell to mix it in, the clapper
to stir it round.
Like every honest fellow I take my whiskey
clear,
I'm a rambling wreck from Rolla Tech.
A Mining Engineer.

Chorus.

A Mining, Mining, Mining, Mining, Mining Engineer,
A Mining, Mining, Mining, Mining, Mining Engineer,
Like every honest fellow I take my whiskey
clear,
I'm a rambling wreck from Rolla Tech.
A Mining Engineer.

THE FACULTY SMOKER



Raj enjoys the Faculty Smoker.

Boom! Boom! The buzz and rattle that filled Chemical Hall quickly disintegrated into little quivering murmurs under the steady crash of that big dish pan. Expectant eyes followed the motions of the little man and ready ears listened to Prof. Griswold announcing the opening numbers of the much talked of Faculty Smoker. The contestants were a few minutes behind the announcement and while they were waiting the two hundred and more who had assembled to partake of the Faculty's bounty, discussed the possibilities of fun. There had been much mystery about the programme for the night. It was published in a bulletin—not official—that Prof Griswold would make a comic talk, that Prof Young would sing and that Prof. Litchman would————Wow!

The spar fight interrupted all discussions and Bowles and Seltzer began joyfully to hammer each other while the crowd yelled and whooped encouragement to both at once. Professors Dean, Gottschalk and others had worked through the hall leaving a trail of cob pipes and tobacco (Oh, such tobacco!) which refused to go up in smoke. There is considerable science in spar fighting—but it's largely hit quick and hold short on the pillow. Bowles won this match, that is, Seltzer hit the mat more times. He fell gracefully, though, ever notice what a pretty foot he has?

Boom! "Spar fight between Harrison and Bingham"

"Cocky Wise" thought he could whip the world in the spar, but Bingham fooled him some. Bingham put him down often and all the while he smiled pleasantly, yet a little doubtfully as though he didn't know whether it was fun or not.

Boom!

The crowd expected a Faculty number this time, but evidently these were held till later when the fun should have grown fast and furious.

"Fencing Boyer and Butler."

Spectacular play was this—and exhibition of great skill. Boyer had won a championship trophy at the University of Illinois and Butler was also "there with the goods." A short rest, then after each other with sword and dagger. It looked like serious business. Butler lost the button from his dagger and pinked Boyer in the hand before he found it out. A nice finish.

The Faculty was mixed with the students that night. We found they were a good set of fellows, who took the smoke cheerfully, who laughed when things were funny and cheered when the play was good.

Boom! The small man and the big noise again. "Blind boxing by Peeso and Heydecker." Ropes tied about the middle of the blindfolded contestants were looped around opposite pillows and controlled by two men. The ropes were slacked until Peeso stood within five feet of Heydecker when Seltzer slipped in and tapped each of them on his caput. They beat the air. Directly there were two sneaks. The wild scrambles and disappointed rushes of the blind ones were ludicrous. We think that the Faculty laughed as loud as the rest. You see, everybody was there for sport.

THE FACULTY SMOKER—Continued

Boom! "Music."

The mandolin club entertained us with "a few choice selections." Honest it was fine. All of us have ears for music ! ! ! ! !

Boom! "Song by* the Faculty."

The crowd crowded closely and nearly choked the piano in their glee. Boom! "You need not get so close, you will be able to hear this comfortably at some distance." We moved back and stood in chairs, the better to see. Some of us got back too far, but we could hear Buck Owen and see some of the Faculty working its face open and shut. When they got into the swing of the tune we could see the Director very plainly through the smoke for he is quite long. "Rock a bye bab"—Achoo, Achooeow!—"ee top, when the—" who turned loose the snuff—who sneezed? You say that wasn't the song they sang. How do I know? Think I'm a mind reader?

Bowles and Chew boxed a couple of rounds. They are pleasant fellows, but great guns, they did look mean that night. Both came out alive, though the air was obscured with black looks. Remember?

"Schmitt and Forrester." This was a merry round, and they hit hard, too.

Then out came the Faculty, including Brown, with the lunch, cheese sandwiches and coffee, peanut sandwiches and coffee, deviled ham sandwiches and ditto, more sandwiches, little cakes and more coffee and CIGARS.

Somebody sprinkled some sand on the floor. Somebody played the piano and Red Forrester danced. Just didn't he?

Afterward we marched the serpentine, or sailed paper plates around.

We had a good time—we said so. We thanked the Faculty-host and went home.

*"By" in the dutch sense, meaning alongside.



MINING ENGINEER

Tune, "Prodigal Son."

1

Hail M. S. M. in Rolla, Mo., All Hail, All Hail.
Hail M. S. M. in Rolla, Mo., All Hail, All Hail.
Silver and Gold the colors true
Of School of Mines of old Missou,
Rah, Rah, Rah, Rah, Missouri School of Mines.

2

Prof. Dean he was an engineer, he was, he was.
Prof. Dean he was an engineer, he was, he was.
For he invented calculus and hands it out all right to us,
Rah, Rah, Rah, Rah, Mining Engineer.

3

Prof. Bowen keeps the shop for us, he does, he does.
He saws big sticks right off in two, he does, he does.
As pounding steel is lots of fun, he has you make another one.
Ching, Ching, Ching, Ching, Mining Engineer.

4

Peter Jimmy is a language shark, he is, he is.
Peter Jimmy is a language shark, he is, he is.
La Espanola habla much, tambien Frances, Ingles y Dutch.
Rah, Rah, Rah, Rah, Mining Engineer.

5

Oh, Gottschalk mixes up the dope, he does, he does.
Oh, Gottschalk mixes up the dope, he does, he does.
He boils the graphite up with lead and kills the tricky freshmen dead.
Rah, Rah, Rah, Rah, Mining Engineer.

6

Doc McRae is an engineer, he is, he is.
Doc McRae is an engineer, he is, he is.
He treats the class with electric sparks and turns the lobsters into sharks.
Rah, Rah, Rah, Rah, Mining Engineer.

MINING ENGINEER—Continued

7

Oh, Litchman teaches mining too, he does, he does.
Oh, Litchman teaches mining too, he does, he does.
He works it all right out with chalk and makes you see it with his talk.
Rah, Rah, Rah, Rah, Mining Engineer.

8

Oh, Griswold makes you play with rocks, he does, he does.
Oh, Griswold makes you play with rocks, he does, he does.
He writes with his hands both left and right and plunks down F's
with all his might.
Rocks, Rocks, Rocks, Rocks, Mining Engineer.

9

Prof. Copeland teaches assaying, he does, he does.
Prof. Copeland teaches assaying, he does, he does.
So don't forget to flux your charge or else your grades will not be
large.
Flux, Flux, Flux, Flux, Mining Engineer.

10

Young Seltzer he helps Gottschalk out, he does, (sometimes).
Young Seltzer he helps Gottschalk out, he does, (sometimes).
Tho' he's well up in acid titration, taking long walks is his favorite
vocation.
Rah, Rah, Rah, Rah, Mining Engineer.

The Asylum



This is all Butler knows about the Cat-en-(can)ary.



Big old Loving Phil has ~~always~~ got to work
when he goes down to the Pond.



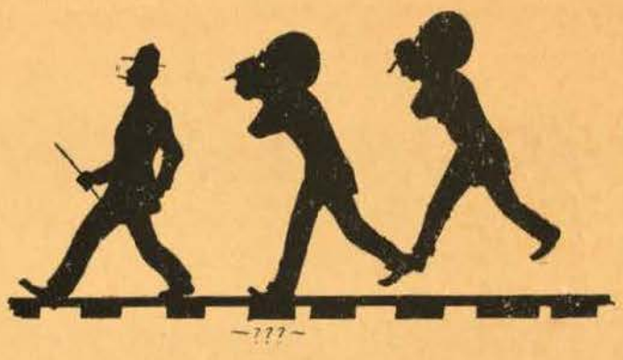
The Mexicans discover some of the physical properties of ice
1) That it always freezes with the slippery side up.



The Count Von Snipe exterminates the last wooden duck!



Don.



—???—

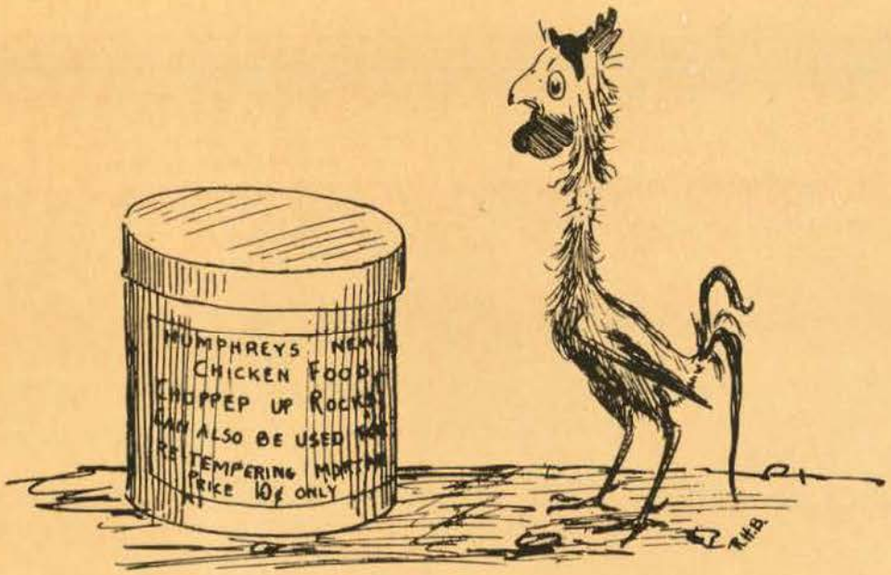


The Exodus.





Keats Shelley Longfellow Keystone.
The Mud Poet.



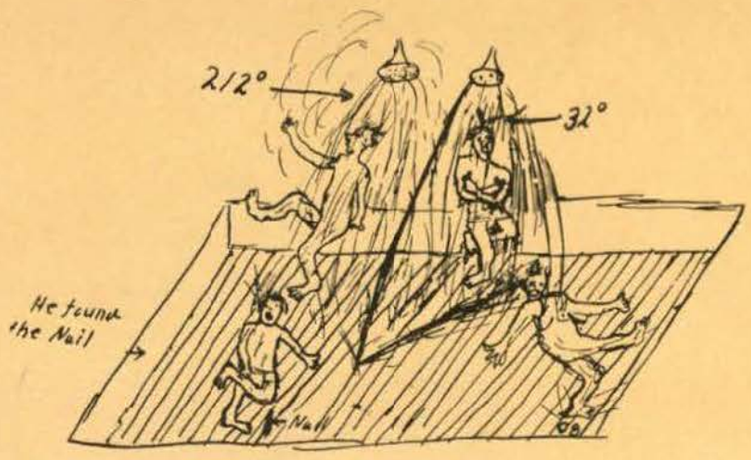
"More of that new fangled stuff! The sooner I get busy hunt up some good old worms — the better."



WHEN THE LIGHT FAILED



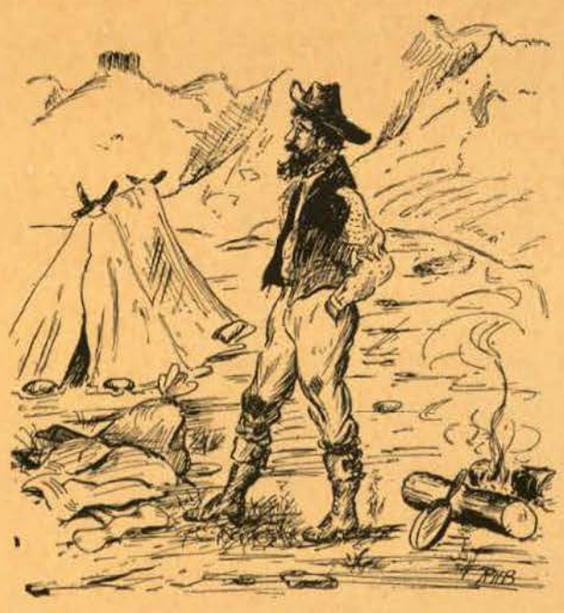
Peterson, having been told in Geology that fish sometimes fall from the clouds, attempts to catch them with a hook on the tail of a kite.



Ye Gentle Showers droppeth as the gentle rain from heaven



Social Announcements "Calculus is visiting country relatives + is not expected in town until after Hallowe'en.



THE MINING ENGINEER

(ten years after)

THE FACULTY PROCESS FOR CANNING MINERS

1

Have you noticed, in the Spring time,
How the boy began to kill time,
He'd ne'er a thought of exam time,
Or the Faculty.

2

As he lays around asleep,
When the birds begin to cheep,
Bad dreams upon him creep,
Of the Faculty.

3

The fishin's good on the Gasconade.
He took his bottle of "lemonade"
And sipped it neath the leafy shade,
Like some of the Faculty.

4

As on his couch of green he lay,
Watching Miners on their way
To their "eight o'clocks" each day,
Good Old Faculty!

5

"Cutting" class was all the rage,
Neither book or printed page,
Mars the peace of this young sage.
Wake up Faculty!

6

The "notices" begin to come,
They put a damper on the fun,
They were signed "Director Young."
Most Watchful Faculty!

7

"Please call at my big office door
And please explain (but don't get sore)
Why you consider school a bore"
Answer to the Faculty.

8

Youth answers not but hangs his head,
Then gazes up with face so red,
Inspired suddenly, he said:
"Ask the Faculty."

9

And so the Faculty, man by man,
Rehearsed his misdeeds; on they ran,
'Till they adorned him with a can.
CRUEL FACULTY!

—H. S. O.

Engineer's Ramble Song

There was a bold young Engineer
Who'd just got out of school,
He had a lot of big thick books,
And knew he was no fool.
They set him marking station-pins,
But he didn't know the code,
So they ditched him ten miles out of camp,
And let him hit the road.

Cho.—Oh, didn't he ramble, etc.

He got a job as electric man,
He thought he'd make some tin.
They sent him up a big tall pole
To put a feeder in.
He lost his grip and tumbled back
And grabbed the wires bright,
Then hung on for a moment
Till the juice put out his light.

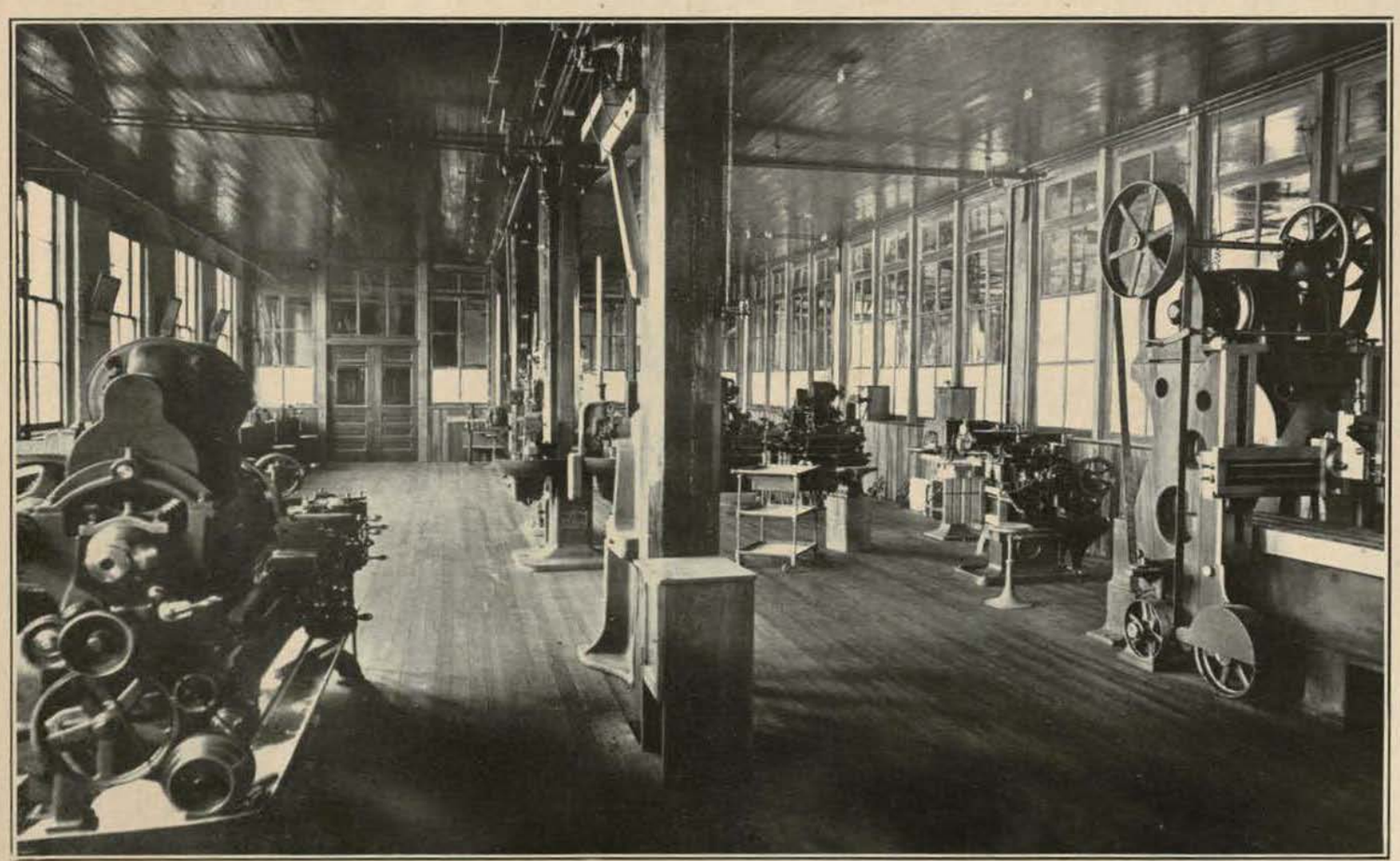
Cho.—

He then descended down below,
Where Satan runs the plant,
He wanted to see the Chief Engineer,
But Satan said; "You can't.
"There are no Engineers down here,
For that could never be,"
So he said "I guess I'll ramble on,
This is no place for me."

Cho.—

He rambled up to Heaven,
Where St. Peter keeps the gate,
The City it was full of Laws;
He saw he was too late.
They wanted him to take his place
Upon the Golden Throne,
But he said "I guess I'll ramble on,
I'd rather be alone."

Cho.—



VIEW OF MACHINE SHOP

For the Rollamo Board: "In fact it is as difficult to appropriate the thoughts of others as it is to invent."—Emerson.

For Buck Owen: "Ah, why should life all labor be?"—Tennyson.

For Various Persons: "I drink when I have occasion and sometimes when I have no occasion."—Cervantes.

For "Gloomy Gus" Baker: "In the night all cats are gray."—Cervantes.

For French: "Yet a little sleep, a little slumber, a little folding of the hands to sleep."—Old Testament.

For Prof. Dean: "Angling may be said to be so like the mathematics that it can never be fully learned."—Izaak Walton.

For Spoffy: "Bid me discourse, I will enchant thine ear."—Shakespeare.

Overheard in the Library.

Prof. Copelank: "The fighting chawnce? Oh, yes, I have one."
Princesse: "Well, I want it."
P. C.: "I am willing to let any one have a chawnce."
Princesse: "Yes, if they fight for it."
P. C.: "You are quite competent to fight for it."
Princesse: "You have had the book so long it has given up the fight and hasn't the ghost of a chaance."
P. C.: "Rully, you were speaking of a book?"

A FEW MEN WELL-KNOWN AROUND SCHOOL

Name	Chief Occupation	Chief Hobby	Chief Virtue
"RED" BARRETT	Posing in Freshman Lab	Red Hair	Can beat Prof. Dean Bowling.
"WISH"	Regular attendance at classes	Promotion	Speaking slowly.
"BROMO" SELTZER	Studying typewriting	Fleecing the Innocents	His length.
"DUD"	Making a mess in chem. lab.	Asking fool questions.	Capacity of absorption.
"DOSIE"	Borrowing matches	Mooching the Makins	His youth.
"BILL" HALL	Saying nothing	Rollamo	Argumentative powers.
"SKID" KELLOG	Studying	Canned Shrimp	Maintaining his Dignity.
"PETE" RADOVICH	Bothering Dr. McRae	Anarchy	
"BUCK" OWEN	Opening letters from faculty	Sleep and Clothes	Innocent expression.
PROF. COPELAND	Trying to talk slowly	The use of soda in nail assay	Being on the square.
PERF. LITCHMAN	Studying up next lecture	Violins	Swell Dancer.
JOHN BOWLES	Telling about it	Agitation	Can conceal his genius.
"RED" ANDERSON	Financiering	Can't be printed	Business head.

ON THE CARPET

Dramatis Personae: Prospective student. Members of the Faculty.

P. S. "Is this where you sign up?"

Prof. Griswold: "You should see the committeee on entrance."

P. S.: "Is this the Committee on Entrance?"

Prof. Garrett (calling the expert on breath analysis): "Yes, see this man."

Expert: "Stick out your tongue. H'm! All right, now let me smell your breath. Now blow into this bottle." To Prof. Gotty: "Here is a sample of his breath. You may now proceed to the committee on morality."

P. S. enters committee room and is greeted with Prof. Scott's most engaging smile.

Prof. Scott: "Do you eat candy? No! That is good. Nor pie? All right, I will pass you on eating. Are you a fusser or a student? Student! Excellent! Take this card to the Medical Committee."

After wandering through numerous other committee rooms and being asked many, many questions, our hero is at last signed up and drags himself wearily into the Library where he inquires for a pair of shears.

Miss Heller: "Don't cut that red tape on the floor in here, I have told at least seven million freshmen to go out in the hall and not litter up the reading room floor. It is simply awful the way this room gets inside an hour after registration is well under way. If there—— But the Freshman has made good his escape.

SOME MINING TERMS

There are many persons interested in the mining industry to whom some of the terms descriptive of phrases and features in the work of the mines are akin to Greek. Anyone who will commit to memory the following, from "Mines and Minerals," may claim to be somewhat versed in mining terminology:

A lode is a streak, as sure as you're born,
A dip is a pitch of the same;
A big bunch of rock that spoils the pay shoot
Is called a horse in the vein.

A hanging wall's the top, you know,
Or roof of leads in place.
The foot wall's just the floor of them,
Or the bottom, bed or base.

An incline shaft is one that's sunk
Down on the lead's own pitch;
A straight one doesn't seem to care
'Bout striking ore that's rich.

A crosscut runs to tap the vain
From a point that's picked as best;
A tunnel's about the same old thing,
So we'll let that subject rest.

A drift is a tunnel that follows a lead,
Not down but in on a level;
A stope's a hole where ore was mined—
Now, don't that beat the devil?

A winze is a sort of shaft, you see,
That starts from a level below,
And why they picked that name for it
Is more, my friends, than I know.

A raise is made to connect two levels,
Or to strike the shoot overhead,
And the face of a drift is the end of the thing,
And so we'll say, "enough said."

Dr. McRae: "The top end of a Heine Boiler is higher than the lower end."

Ham: "Haven't you done that problem yet?"
Junior: "No, this is the first time I ever took this subject."

Trams: "If the sun were made of anthracite coal how long would it last?"
Lemming: (After Thermo): "It would depend upon who was firing and whether or not he kept the ashes shook down."

Dobbins: "Well, doctor, does that mean that they replace the water going over Niagara Falls by coal?"

Mose: "Now the only thing I don't know in Thermo is ——"
Dr. McRae: "You are lucky, if that is the only thing you don't know."

Prof. Gottschalk: "No, I am not trying to raise a beard, I am trying to raise the price of a shave."

For Mose: "There are lots of things one never learns at school."

For Ohnsorg: "The things you learn from the Yellow and Brown,
Will 'elp you a 'eap with the White."—Kipling.

Rolla State Bank

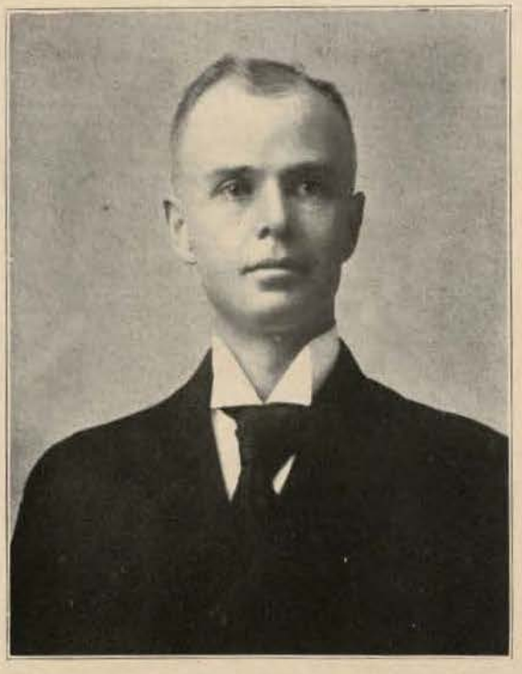
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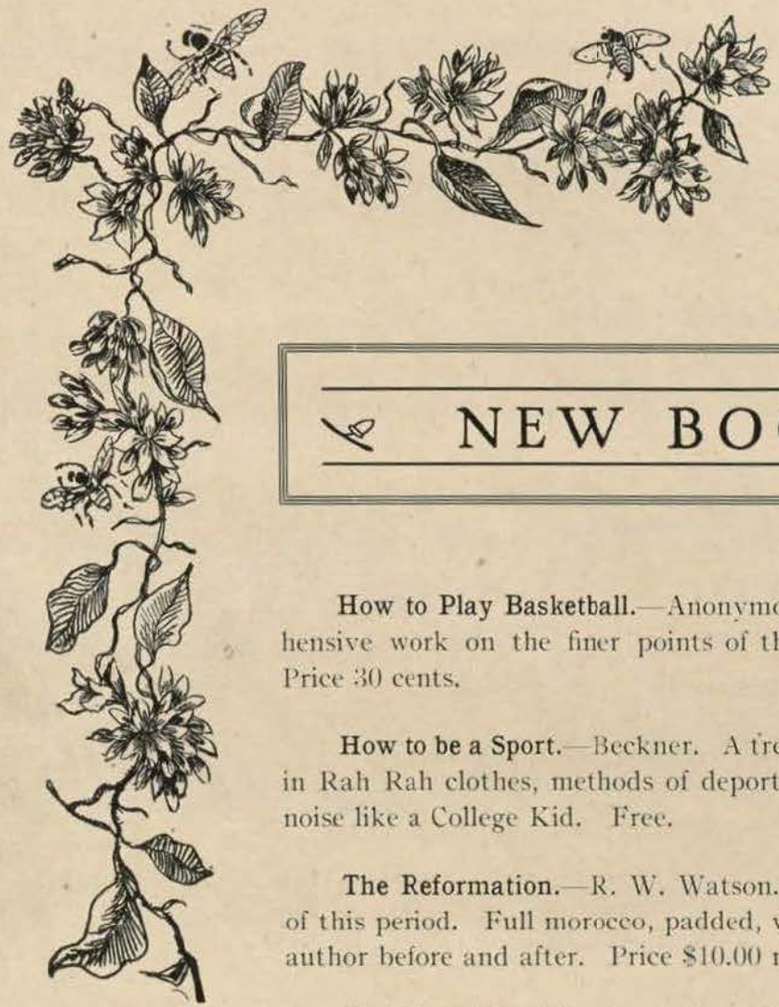
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A SPECIMEN PAPER IN GEOLOGY

Orthoclase feldspars	aluminum silicates, white and some porous like.
Plagisclase feldspars	composed of Fe, Al, and Na compounds.
Labioclase feldspars	copper mainly, also Al and Si.
Microline feldspars	of mica family.
Hornblende	ore jack, important iron ore.
Tourmaline	is a high grade ore of lead.

The minerals are white, characterized by porousness and have a characteristic cleavage of 120 degrees. They can be scratched with a knife.

NOTE—Came in late from football trip and hadn't time to review.

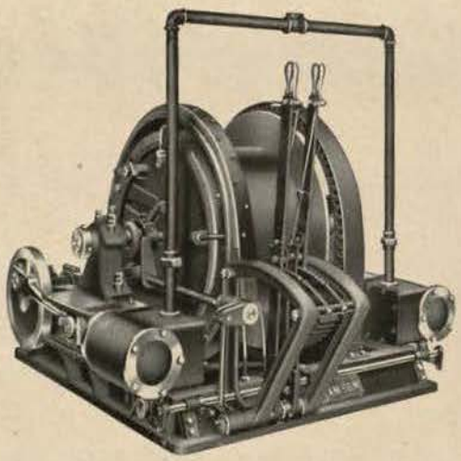
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PUZZLE LECTURES

WHO IS THE PROFESSOR?

"Well, here comes Smith; that makes the twenty-three all right. Aha, glad you came, Mr. Smith, you can help us. I suppose you have all forgotten what the equation of a parabola is, origin at the vertex? Ah, that is right Smith. All right, now we'll work out a few little things. We want to get the shape of a mine car which will be self dumping and self righting, in other words top heavy when full and bottom heavy when empty.

"How do you get the area of a parabola? What! Nobody knows? Oh dear! OH! ! ! ! ! MY GOODNESS! ! ! ! ! I'd better let some of you fellows waste your time somewhere else. I have to carry you around like so many sacks of meal! ! ! ! You don't seem to care what you do or what you don't do. Want to get this stuff by absorption! ! ! ! Humph! ! ! ! I have to BONE and if you want to get it you've got to bone too. Bang! ! Bang! ! Oh the idea, a University———etc.———etc.———"

"Now fellers I am going pretty fast this morning and if I say anything you don't undertsand just jump me.

"I believe that some of you fellows will put in more time wearing out the knees of your breeches looking for beads on the balance room floor than you would use to some good purpose and another thing—I cawn't see why the devil a man wants to stand and beat a tatoo with a scorifier after he has poured, etc."

"Mr. Smith your'e off the track, can anybody tell what's the matter with Mr. Smith work? Mr. Black, I am afraid that's wrong. The formula is, as I remember it, P V equals W C T. Now can you do it? Any further questions? Well, all be prepared on these next time and we'll have a quiz."

"Well, if you take equal parts of galenar and quartz and put them through a hindered settling classifier and take the first spigot product and size it through a three millimeter screen taking the undersize and running it back over a forty-mesh woven wire screen to a sixty-mesh, all that remains will take and follow the interstitial ratio according to the theory of rising currents through the interstices and will be separated according to the idear given in Richards, page 487. Now at Tech we carried out a series of experiments, etc., etc."

ED. J. KOCH ROLLA, MO.



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India Rubber. (Talwar looking at a Rolla girl.)

In Metallurgy. "Mr. Brightboy, what does G. M. B. copper mean?
Mr. B. "Good, much bad."

Prof. Masonry: "How do you make a wall water-proof?"
Hob: "Wash it with soap."
Prof. M.: "What kind of soap?"
Hob: "Ivory, I reckon."

The two most opposite fellows in school, Farrar and Neer.

Why is Big Boyer like a greyhound? He makes a little hair go a long ways.

"How does the gentle bag-pants boy,
Of galluses quite guiltless,
Prevent his nether garments large,
From showing his slim builtness?
The answer is, my dear young friend,
Quite simple in completeness,
'Tis hypnotism's gentle art
Prevents this lack of neatness."

Prof. Griswold: "We shall now take the matter up in de-tail."
Spoffy: "Did he say BY de tail?"

Ohnsorg: "If there is any subject I DO know, it's Mechanics."

One of Dudley's bright remarks in Thermo: "Well, according to that theory you could heat a house easier in summer than in winter."



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Andy: (handling some asbestos cloth) "I think that I will have a suit of this!
Hynes: "To be buried in?"

"Is Chook coming back to school?"
Felix: "Yes! You can't keep that man from getting an education."

Chicken is interested in Charles Dudley Warners' Book, "My winter on the Nile."

Prof. Dean: "There are two kinds of people in college; students and phonographs."

Of all sad words, of tounge or pen,
The saddest are these: I've flunked again.

Director Young: (Quoting) "If God made the mule able, I will make him willing."

Prof. Dean: (to a poodle which has strayed into the class room) "Ah! Another freshman."

By These Words you may know them.

Mazany: "In the East we don't, etc., etc.
Fred Boyer: "When I was your age."
Grosberg: "I can get that stuff at wholesale in St. Louis."
Harlan: "Now at the Liberty Bell we," etc.

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ROASTS

BY

GEO. REGINALD DEAN

Wish: "Oh, I am a gun in this stuff."
Dean: "Yes, an air gun."

Dean: "Education now-a-days is a stuffing process and it generally requires an emetic to get anything out of a man after he has gone through a College course."

Dean: "Humph! A bunch of you have missed your calling by taking Mining. You should have joined the navy."
Student: "Why? Water on the brain?"
Dean: "No, so many of you are 'C' men."

Dean: "I saw something curious the other day, a bunch of sharks making monkeys out of themselves."
Chorus: "Monkey, Monkey, ten kegs of beer, how many monkeys were there there?"

Dean: "Watson! why don't you get your old friend Sherlock Holmes to materialize?"

"Wake up! There are too many Rip Van Winkles around this place."

"All I ask of you is to have faith."
Question: "Well I hope he has the charity for the gang."

"I want you to compute the value of big I in this problem. I presume that it will not be difficult, for most people have no trouble in estimating that."



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HUMOR

Hall: (In ore dressing class) "What is a card table, just an ordinary table?"
Prof. Litchman: "Not in Ore Dressing, Mr. Hall."

It is a good thing for the Faculty that the Blue Bird doesn't prosecute trespassers.

"Love me and the world is mine."—Boyer.

"Three years ago I used Pear's soap, since then I have used no other."—Radovich.

The Baseball Manager's song:
"Way down South in the fields of Cotton,
Where the schools are small and the Profs. are rotten."

$(G\ O\ T_2)S.$ (Ch) (Al) K+Se (Lt) (Ze) R+Freshie+C=F.
The behavior of the ions in the above reaction is seldom the same in two cases. The C is usually graphitic.

Thompson: "Now where is the $C_2 H_5$ OH to wash this lead sulphate?"
Mann: "Don't know, last I saw of it, it was going down the lane in the stock room."

$$\int_{\text{Fussing}}^{\text{2 a. m.}}{}^{\text{8 p. m.}} = \Big[\text{Sleepy Soph.}\Big]_{o}^{o} = \text{Rumpus with Dean.}$$

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THIRTY YEARS HENCE

Prof. "Red" Barrett, physical director at the Soldier's Home at St. James made us a call yesterday.

Director John Bowles of the M. S. M. is spending the summer in Denver with his family. Dr. Bowles is taking the Keeley cure.

Capt. Anderson of the Salvation Army is in town looking into the matter of establishing a mission and free soup house here. Capt. Anderson deserves great credit for his noble work. He was formerly an M. S. M. student.

A TRADEGY

Il-y-a un homme d'Angleterre.
Il buvait une grande tasse du biere.
Sa femme fit "un coup de baton."
Il reste en une place dit; la tombe.

New Student: "Prof. Dean, where can I get good plain board?"

Prof. Dean: "My boy, you had better go to a planing mill."

Macomber: "What is the specific gravity of heat?"

Prof. Thompson: "Fast colors will not run."

Sunada: (Intoxicated on prune juice) "I am all exhaust."

Prof. Dean: "These people talk a lot about shear, Huh! It's all sheer nonsense."

Owen: "Do you think electric lamps grow on trees?"

Beach: "Sure! On the electric light plant."

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Prof. Copeland: (In new Metallurgy building, not yet supplied with seats.)
"I wish you to understand, gentlemen, that merely because we use horses for seats in class that this will not be a precedent allowing the use of ponies in exams."

Prof. Thompson: "What is allotrophy?"
Verbose Freshman: "It is the formation of a form of carbon that resulted from great pressure and heat upon the plants and commenced many years ago resulting in the diamond, a priceless gem."

Fond Parent: (To M. S. M. '11 graduate) "Well, since you have finished I suppose you know all about mines and mining."
Youth: "There is just one thing I don't quite see through yet."
F. P: "What's that?"
Youth: "I don't see how they get the gold and silver and copper and other things out of the ground."

Advisor: (To Pollard who doesn't want to be spoken to) "Mr. Pollard, I understand that you recently drank a whole bottle of beer. Do you know what happens to young men who drink beer?"
Pollard: "Yes. They get worried by people who butt in."

Director: (Speaking to Bob Copeland, who had just registered) "Are you Mr. Copeland?"
Bob: "No, Sir, he is in his class room but I am his little brother."

Prof. Thompson: "Mr. Chase, what are the properties of amorphous carbon?"
Chase: "Well, er, I, oh yes, it contains carbon.

Why is Litchman telling a story like a woman sharpening a lead pencil? It takes him so long to come to the point.

"What disguise are you going to wear to the masquerade?"
Buck: "I am going as Bill Peeso."
And he did! ! ! !

What is it? The Freshmen come to get it, the Seniors go without it. Answer, B. S.

Soph: (Who is taking Spanish, speaking to one of the Mexicans) "Bunus dus, Senior."
Polite Mex: "No hablo Inglais, hablo Espanol."

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TWO DOORS SOUTH OF ROLLA STATE BANK

Prof. Griswold (the morning after the Freshman Smoker): "I see by a cartoon on the board that someone was exposed to the nebular hypothesis. I should judge by his appearance that it had some connection with the cider at the Freshman Smoker last evening."

Chooks: "If you temperance mortar it weakens it."

Bill: "What course you taking, Spoffy?"
Spoffy: "Oh, I am taking a graduate course in Kinneymatics."

Query on board in Prof. Griswold's room. "Why is a Rock?"
Prof. Griswold:: "I presume that this is a question for the instructor to answer. I might say that the ulterior purpose of a Rock is to make the way of the transgressor hard."

Found.—An ivory nose ring has been found upon the steps of Norwood Hall. It will be returned to the owner upon identification.

Buck Owen says that he is a poor strategist who cannot find a safe hiding place for a cigarette "butt" between classes.

The sayings of Seniorem who hath attained even his sixth year in the Missouri School of Mines:

And again I say unto you: text books are as patent medicine and a Professor who follows one verbatim is like unto a Quack who prescribes such nostrums.

Better a correspondence course in a mining camp with peace and understanding that a Harvard education with a nagging Prof.

Honor thy teachers and Director so that thy days may be long in the school to which the old man, thy Father, hath sent thee.

Would'st thou pass Ore Dressing? These things shall be necessary, hot air and the friendly fellowship of the holy ghost.


RHB
THE END.